



# product overview



**emas**<sup>®</sup>

# Extensive range of electromechanical products



1000's of different  
product types in 18 ranges.  
Internationally available in  
more than 80 countries.

**Inspiring innovation**

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CM100DYOD



BRJ45



BUSB30



CP100HS



CP200EE

SCB22MP1NC1



SCB300P6PCX



CP070XM



H101S30



HPMR10K2



D200YE30K



SCB30MP7C1

# Control Units and Pilot Lights

## B Series Control Units, 22 mm, IP 50

### Flush, Spring Return



B100DY

| Code   | Contact Block Type | Colour* | Box/Pcs |
|--------|--------------------|---------|---------|
| B100D* | 1 NO               |         | 10      |
| B101D* | 2 NO               |         | 10      |
| B102D* | 1 NO + 1 NC        |         | 10      |
| B200D* | 1 NC               |         | 10      |
| B202D* | 2 NC               |         | 10      |



B100FY

### Stay-Put, Spring Return

| Code   | Contact Block Type | Colour* | Box/Pcs |
|--------|--------------------|---------|---------|
| B100F* | 1 NO               |         | 10      |
| B200F* | 1 NC               |         | 10      |



B200HK

### Extended, Spring Return

| Code   | Contact Block Type | Colour* | Box/Pcs |
|--------|--------------------|---------|---------|
| B100H* | 1 NO               |         | 10      |
| B101H* | 2 NO               |         | 10      |
| B102H* | 1 NO + 1 NC        |         | 10      |
| B200H* | 1 NC               |         | 10      |
| B202H* | 2 NC               |         | 10      |



B132K21HB



B102K20KY

### Double, Spring Return

| Code      | Type     | Contact Block Type | Colour* | Box/Pcs |
|-----------|----------|--------------------|---------|---------|
| B102K20KY |          | 1 NO + 1 NC        |         | 8       |
| B102K21KY | Extended | 1 NO + 1 NC        |         | 8       |
| B102K20HB |          | 1 NO + 1 NC        |         | 8       |
| B102K21HB | Extended | 1 NO + 1 NC        |         | 8       |



B102B20KY

### Big Size Double, Spring Return

| Code      | Type  | Contact Block Type | Colour* | Box/Pcs |
|-----------|-------|--------------------|---------|---------|
| B102B20HB | Flush | 1 NO + 1 NC        |         | 8       |
| B102B20KY | Flush | 1 NO + 1 NC        |         | 8       |



B121B30YY

### Triple With Extended Stop

| Code      | Type          | Contact Block Type | Colour* | Box/Pcs |
|-----------|---------------|--------------------|---------|---------|
| B121B30YY | Extended Stop | 1 NO + 1 NC + 1 NO |         | 8       |
| B121B30BB | Extended Stop | 1 NO + 1 NC + 1 NO |         | 8       |



B100S20



B100T20

### Selector

| Code    | Type                 | Contact Block Type | Position | Angle | Colour* | Box/Pcs |
|---------|----------------------|--------------------|----------|-------|---------|---------|
| B100S20 |                      | 1 NO               | 0-1      | 60°   |         | 10      |
| B100S21 | Spring Return        | 1 NO               | 0-1      | 60°   |         | 10      |
| B101S30 |                      | 2 NO               | II-0-1   | 60°   |         | 10      |
| B101S31 | Single Spring Return | 2 NO               | II-0-1   | 60°   |         | 10      |
| B101S32 | Double Spring Return | 2 NO               | II-0-1   | 60°   |         | 10      |
| B100R20 |                      | 1 NO               | 0-1      | 45°   |         | 10      |
| B100R21 | Spring Return        | 1 NO               | 0-1      | 45°   |         | 10      |
| B100T20 |                      | 1 NO               | 0-1      | 90°   |         | 10      |
| B100T21 | Spring Return        | 1 NO               | 0-1      | 90°   |         | 10      |

Note 1 : For "12-30V AC/DC" Voltage in LED illumination preferences, please use the numbers; 5: White, 6:Red, 7:Blue, 8: Yellow, 9: Green, instead of "0". i.e: B260DK

Note 2 : For "48V AC/DC" Voltage in LED illumination preferences, please use the letters; Q: White, X:Red, V:Blue, W: Yellow, Z: Green, instead of "0".

Note 3 : For "100-230VAC" Voltage in LED illumination preferences, please use the letters; B: White, K:Red, M:Blue, S: Yellow, Y: Green, instead of "0". i.e: B1B0DB

Note 4 : For "110V AC/DC" Voltage in LED illumination preferences, please use the letters; C: White, D:Red, E:Blue, F: Yellow, G: Green, instead of "0".

Note 5 : Please use "3" instead of "0" for the Neon Lamp and Ba9S LED, please do not forget to add bulb



B100SL20Y

## Illuminated Selector

| Code      | Type                 | Contact Block Type | Position | Colour*                 | Box/Pcs |
|-----------|----------------------|--------------------|----------|-------------------------|---------|
| B100SL20* |                      | 1 NO               | 0-1      | (B) (K) (M) (S) (Y) (H) | 10      |
| B100SL21* | Spring Return        | 1 NO               | 0-1      | (B) (K) (M) (S) (Y) (H) | 10      |
| B101SL30* |                      | 2 NO               | II-0-I   | (B) (K) (M) (S) (Y) (H) | 10      |
| B101SL31* | Single Spring Return | 2 NO               | II-0-I   | (B) (K) (M) (S) (Y) (H) | 10      |
| B101SL32* | Double Spring Return | 2 NO               | II-0-I   | (B) (K) (M) (S) (Y) (H) | 10      |

Note 1 : For "12-30V AC/DC" Voltage in LED illumination preferences, please use the numbers; 5: White, 6:Red, 7:Blue, 8: 9: Green, instead of "0". i.e: B160SL20K

Note 2 : For "48V AC/DC" Voltage in LED illumination preferences, please use the letters; Q: White, X:Red, V:Blue, W: Yellow, instead of "0". Z: Green, Note 3 : For "100-230VAC" Voltage in LED illumination preferences, please use the letters; B: White, K:Red, M:Blue, S: Yellow, Y: Green, instead of "0". i.e: B1B0SL20B

Note 4 : For "110V AC/DC" Voltage in LED illumination preferences, please use the letters; C: White, D:Red, E:Blue, F: Yellow, G: Green, instead of "0".

Note 5 : Please use "3" instead of "0" on the middle for the Neon Lamp and Ba9S LED, please do not forget to add bulb.



B200MK



B100C

## Handle and Mushroom Head

| Code   | Type                         | Contact Block Type | Colour*             | Box/Pcs |
|--------|------------------------------|--------------------|---------------------|---------|
| B100C  | Handle Switch                | 1 NO               | ●                   | 10      |
| B102C  | Handle Switch                | 1 NO + 1 NC        | ●                   | 10      |
| B200C  | Handle Switch                | 1 NC               | ●                   | 10      |
| B100M* | Mushroom Head, Spring Return | 1 NO               | (B) (K) (S) (Y) (H) | 10      |
| B102M* | Mushroom Head, Spring Return | 1 NO + 1 NC        | (B) (K) (S) (Y) (H) | 10      |
| B200M* | Mushroom Head, Spring Return | 1 NC               | (B) (K) (S) (Y) (H) | 10      |

\* Please choose the colour and replace (\*) with the letter.



B100AC20

## Key Operated

| Code     | Type                 | Contact Block Type | Position | Colour | Box/Pcs |
|----------|----------------------|--------------------|----------|--------|---------|
| B100AA20 | Stay Put             | 1 NO               | 0-1      | ●      | 1       |
| B102AA20 | Stay Put             | 1 NO + 1 NC        | 0-1      | ●      | 1       |
| B100AA21 | Spring Return        | 1 NO               | 0-1      | ●      | 1       |
| B101AA30 | Stay Put             | 2 NO               | II-0-I   | ●      | 1       |
| B101AA31 | Single Spring Return | 2 NO               | II-0-I   | ●      | 1       |
| B101AA32 | Double Spring Return | 2 NO               | II-0-I   | ●      | 1       |
| B100AC20 | Stay Put             | 1 NO               | 0-1      | ●      | 1       |
| B102AC20 | Stay Put             | 1 NO + 1 NC        | 0-1      | ●      | 1       |
| B102AC30 | Stay Put             | 1 NO + 1 NC        | II-0-I   | ●      | 1       |

\* Ω Key removal position



B200E30



B200EE



B200EG

## Emergency Stop

| Code    | Type                        | Contact Block Type | Diameter | Colour* | Box/Pcs |
|---------|-----------------------------|--------------------|----------|---------|---------|
| B200E30 | Turn to Release             | 1 NC               | 30       | ●       | 10      |
| B102E30 | Turn to Release             | 1 NO + 1 NC        | 30       | ●       | 10      |
| B102E   | Turn to Release             | 1 NO + 1 NC        | 40       | ●       | 10      |
| B200E   | Turn to Release             | 1 NC               | 40       | ●       | 10      |
| B200EE  | Turn to Release, With Label | 1 NC               | 40       | ●       | 10      |
| B200E60 | Turn to Release             | 1 NC               | 60       | ●       | 5       |
| B102E60 | Turn to Release             | 1 NO + 1 NC        | 60       | ●       | 5       |
| B200EG  | With Position Cursor        | 1 NC               | 40       | ●       | 10      |



BPR01K

## Potentiometer (1,5W@70°C IP65)

| Code    | Features                | Colour* | Box/Pcs |
|---------|-------------------------|---------|---------|
| BPR01K  | 1 kΩ (Ceramic, Wired)   | ●       | 10      |
| BPR02K  | 2,2 kΩ (Ceramic, Wired) | ●       | 10      |
| BPR05K  | 5 kΩ (Ceramic, Wired)   | ●       | 10      |
| BPR10K  | 10 kΩ (Ceramic, Wired)  | ●       | 10      |
| BPR100K | 100 kΩ (Ceramic, Wired) | ●       | 10      |



BUSB30



BRJ45

### Connection, IP65

| Code   | Features  | Box/Pcs |
|--------|---|---------|
| BUSB   | USB Connection, 1,50 Metre                      | 1       |
| BUSB30 | Female-Female USB3.0 Connection                 | 10      |
| BRJ45  | Female-Female Gold Plated Metal Ethernet Socket | 10      |



SCB22MP1NC1



SCB22MP1RC1



SCB300P6PC1



SCB300P6PCX



SCB30MP7C1



SCB30MP6PSX

### Touch Button, IP67

| Code        | Body Type                | Voltage                                       | Type      | Connection    | Output |
|-------------|--------------------------|---|-----------|---------------|--------|
| SCB22MP1NC1 | Dia 22 mm                | 10-30 V DC                                    | Momentary | 1 Metre Cable | NPN-NO |
| SCB22MP1NSX | Dia 22 mm                | 10-30 V DC                                    | Momentary | M12 Connector | NPN-NO |
| SCB22MP1OC1 | Dia 22 mm                | 10-30 V DC                                    | Momentary | 1 Metre Cable | NPN-NC |
| SCB22MP1OSX | Dia 22 mm                | 10-30 V DC                                    | Momentary | M12 Connector | NPN-NC |
| SCB22MP1PC1 | Dia 22 mm                | 10-30 V DC                                    | Momentary | 1 Metre Cable | PNP-NO |
| SCB22MP1PSX | Dia 22 mm                | 10-30 V DC                                    | Momentary | M12 Connector | PNP-NO |
| SCB22MP1RC1 | Dia 22 mm                | 10-30 V DC                                    | Momentary | 1 Metre Cable | PNP-NC |
| SCB22MP1RSX | Dia 22 mm                | 10-30 V DC                                    | Momentary | M12 Connector | PNP-NC |
| SCB22MP5NC1 | Dia 22 mm                | 10-30 V DC                                    | Stay Put  | 1 Metre Cable | NPN-NO |
| SCB22MP5NSX | Dia 22 mm                | 10-30 V DC                                    | Stay Put  | M12 Connector | NPN-NO |
| SCB22MP5OC1 | Dia 22 mm                | 10-30 V DC                                    | Stay Put  | 1 Metre Cable | NPN-NC |
| SCB22MP5OSX | Dia 22 mm                | 10-30 V DC                                    | Stay Put  | M12 Connector | NPN-NC |
| SCB22MP5PC1 | Dia 22 mm                | 10-30 V DC                                    | Stay Put  | 1 Metre Cable | PNP-NO |
| SCB22MP5PSX | Dia 22 mm                | 10-30 V DC                                    | Stay Put  | M12 Connector | PNP-NO |
| SCB22MP5RC1 | Dia 22 mm                | 10-30 V DC                                    | Stay Put  | 1 Metre Cable | PNP-NC |
| SCB22MP5RSX | Dia 22 mm                | 10-30 V DC                                    | Stay Put  | M12 Connector | PNP-NC |
| SCB22UP1NC1 | Dia 22 mm                | 10-30 V DC, Optional Lighting Colour, 5 Wired | Momentary | 1 Metre Cable | NPN-NO |
| SCB22UP1PC1 | Dia 22 mm                | 10-30 V DC, Optional Lighting Colour, 5 Wired | Momentary | 1 Metre Cable | PNP-NO |
| SCB30MP6NC1 | Dia 30 mm                | 12-30 V DC                                    | Momentary | 1 Metre Cable | NPN-NO |
| SCB30MP6NSX | Dia 30 mm, Round Shape   | 12-30 V DC                                    | Momentary | M12 Connector | NPN-NO |
| SCB30MP6PC1 | Dia 30 mm                | 12-30 V DC                                    | Momentary | 1 Metre Cable | PNP-NO |
| SCB30MP6PSX | Dia 30 mm, Round Shape   | 12-30 V DC                                    | Momentary | M12 Connector | PNP-NO |
| SCB30MP7NC1 | Dia 30 mm                | 12-30 V DC                                    | Stay Put  | 1 Metre Cable | NPN-NO |
| SCB30MP7NSX | Dia 30 mm, Round Shape   | 12-30 V DC                                    | Stay Put  | M12 Connector | NPN-NO |
| SCB30MP7PC1 | Dia 30 mm                | 12-30 V DC                                    | Stay Put  | 1 Metre Cable | PNP-NO |
| SCB30MP7PSX | Dia 30 mm, Round Shape   | 12-30 V DC                                    | Stay Put  | M12 Connector | PNP-NO |
| SCB300P6NC1 | Dia 30 mm, Diamond Shape | 12-30 V DC                                    | Momentary | 1 Metre Cable | NPN-NO |
| SCB300P6NSX | Dia 30 mm, Diamond Shape | 12-30 V DC                                    | Momentary | M12 Connector | NPN-NO |
| SCB300P6PC1 | Dia 30 mm, Diamond Shape | 12-30 V DC                                    | Momentary | 1 Metre Cable | PNP-NO |
| SCB300P6PSX | Dia 30 mm, Diamond Shape | 12-30 V DC                                    | Momentary | M12 Connector | PNP-NO |
| SCB300P7NC1 | Dia 30 mm, Diamond Shape | 12-30 V DC                                    | Stay Put  | 1 Metre Cable | NPN-NO |
| SCB300P7NSX | Dia 30 mm, Diamond Shape | 12-30 V DC                                    | Stay Put  | M12 Connector | NPN-NO |
| SCB300P7PC1 | Dia 30 mm, Diamond Shape | 12-30 V DC                                    | Stay Put  | 1 Metre Cable | PNP-NO |
| SCB300P7PSX | Dia 30 mm, Diamond Shape | 12-30 V DC                                    | Stay Put  | M12 Connector | PNP-NO |
| SCB30UP6PC1 | Dia 30 mm                | 12-30 V DC, PLC Control 6 Wired               | Momentary | 1 Metre Cable | PNP-NO |



B080XS

## B Series Pilot Lights with Contact Block, IP50

| Code   | Illumination            | Nominal Voltage | Colour*             | Box/Pcs |
|--------|-------------------------|-----------------|---------------------|---------|
| B030X* | With Lampholder forBa9S |                 | (B) (K) (M) (S) (Y) | 10      |
| B050XB | LED                     | 12 - 30V AC/DC  | (B)                 | 10      |
| B060XK | LED                     | 12 - 30V AC/DC  | (K)                 | 10      |
| B070XM | LED                     | 12 - 30V AC/DC  | (M)                 | 10      |
| B080XS | LED                     | 12 - 30V AC/DC  | (S)                 | 10      |
| B090XY | LED                     | 12 - 30V AC/DC  | (Y)                 | 10      |
| B0Q0XB | LED                     | 48V AC/DC       | (B)                 | 10      |
| B0V0XM | LED                     | 48V AC/DC       | (M)                 | 10      |
| B0W0XS | LED                     | 48V AC/DC       | (S)                 | 10      |
| B0X0XK | LED                     | 48V AC/DC       | (K)                 | 10      |
| B0Z0XY | LED                     | 48V AC/DC       | (Y)                 | 10      |
| B0B0XB | LED                     | 100-230V AC     | (B)                 | 10      |
| B0K0XK | LED                     | 100-230V AC     | (K)                 | 10      |
| B0M0XM | LED                     | 100-230V AC     | (M)                 | 10      |
| B0S0XS | LED                     | 100-230V AC     | (S)                 | 10      |
| B0Y0XY | LED                     | 100-230V AC     | (Y)                 | 10      |
| B0C0XB | LED                     | 110V AC/DC      | (B)                 | 10      |
| B0D0XK | LED                     | 110V AC/DC      | (K)                 | 10      |
| B0E0XM | LED                     | 110V AC/DC      | (M)                 | 10      |
| B0F0XS | LED                     | 110V AC/DC      | (S)                 | 10      |
| B0G0XY | LED                     | 110V AC/DC      | (Y)                 | 10      |

Note: B030X\* doesn't have lamp. Please choose Ba9s LED from Page 9. \*Please choose the colour and replace (\*) with the letter.



B3

B1



BDDH

BDAA20



BDS20

BDK20KY



BDSL20Y

BDE60



BDC

BK



BDMH

BEBK20



BEB

LED220K



LED24S

## Spare Parts of B Series

| Code        | Type                        | Features                                   | Position | Colour* | Box/<br>Pcs |
|-------------|-----------------------------|--|----------|---------|-------------|
| B1          | Contact Block               | 1 NO                                       |          | 20      | 20          |
| B2          | Contact Block               | 1 NC                                       |          | 20      | 20          |
| B3          | Contact Block               | Contact Block for Illumination             |          | 20      | 20          |
| BDD*        | Button Actuator             | Flush                                      |          |         | 20          |
| BDF*        | Button Actuator             | Stay Put                                   |          |         | 20          |
| BDH*        | Button Actuator             | Extended                                   |          |         | 20          |
| BDM*        | Button Actuator             | Mushroom                                   |          |         | 20          |
| BDS20       | Button Actuator             | Selector                                   | 0-1      |         | 20          |
| BDS21       | Button Actuator             | Selector, Spring Return                    | 0-1      |         | 20          |
| BDS30       | Button Actuator             | Selector                                   | II-0-I   |         | 20          |
| BDAC20      | Button Actuator             | Key Operated, Stay Put                     | 0-1      |         | 10          |
| BDAA20      | Button Actuator             | Key Operated, Stay Put                     | 0-1      |         | 10          |
| BDAC30      | Button Actuator             | Key Operated, Stay Put                     | II-0-I   |         | 10          |
| BDAA30      | Button Actuator             | Key Operated, Stay Put                     | II-0-I   |         | 10          |
| BDSL20*     | Button Actuator             | Illuminated Selector                       | 0-1      |         | 10          |
| BDSL30*     | Button Actuator             | Illuminated Selector                       | II-0-I   |         | 10          |
| BDB20KY     | Button Actuator             | Big, Double                                |          |         | 8           |
| BDB30YY     | Button Actuator             | Double with Extended Stop Button           |          |         | 8           |
| BDK20KY     | Button Actuator             | Double                                     |          |         | 8           |
| BDK21KY     | Button Actuator             | Double, Extended                           |          |         | 8           |
| BDK20HB     | Button Actuator             | Double                                     |          |         | 8           |
| BDK21HB     | Button Actuator             | Double, Extended                           |          |         | 8           |
| BDC         | Button Actuator             | Handle                                     |          |         | 20          |
| BDE         | Button Actuator             | Emergency Stop, 40 mm                      |          |         | 10          |
| BDEE        | Button Actuator             | Emergency Stop, 40 mm, With Label          |          |         | 10          |
| BDEG        | Button Actuator             | Emergency Stop, 40 mm With Position Cursor |          |         | 10          |
| BDE30       | Button Actuator             | Emergency Stop Cylindrical, 30 mm          |          |         | 10          |
| BDE60       | Button Actuator             | Emergency Stop, 60 mm                      |          |         | 5           |
| TIPASOM     | Stopper and Nut             |  |          |         | 100         |
| BDX*        | Pilot                       | Combination                                |          |         | 20          |
| B5          | Illumination Block with LED | 12-30V AC/DC                               |          |         | 20          |
| B6          | Illumination Block with LED | 12-30V AC/DC                               |          |         | 20          |
| B7          | Illumination Block with LED | 12-30V AC/DC                               |          |         | 20          |
| B8          | Illumination Block with LED | 12-30V AC/DC                               |          |         | 20          |
| B9          | Illumination Block with LED | 12-30V AC/DC                               |          |         | 20          |
| BQ          | Illumination Block with LED | 48V AC/DC                                  |          |         | 20          |
| BV          | Illumination Block with LED | 48V AC/DC                                  |          |         | 20          |
| BW          | Illumination Block with LED | 48V AC/DC                                  |          |         | 20          |
| BX          | Illumination Block with LED | 48V AC/DC                                  |          |         | 20          |
| BZ          | Illumination Block with LED | 48V AC/DC                                  |          |         | 20          |
| BB          | Illumination Block with LED | 100-230V AC                                |          |         | 20          |
| BK          | Illumination Block with LED | 100-230V AC                                |          |         | 20          |
| BM          | Illumination Block with LED | 100-230V AC                                |          |         | 20          |
| BS          | Illumination Block with LED | 100-230V AC                                |          |         | 20          |
| BY          | Illumination Block with LED | 100-230V AC                                |          |         | 20          |
| BC          | Illumination Block with LED | 110V AC/DC                                 |          |         | 20          |
| BD          | Illumination Block with LED | 110V AC/DC                                 |          |         | 20          |
| BE          | Illumination Block with LED | 110V AC/DC                                 |          |         | 20          |
| BF          | Illumination Block with LED | 110V AC/DC                                 |          |         | 20          |
| BG          | Illumination Block with LED | 110V AC/DC                                 |          |         | 20          |
| BN          | Illumination Block with LED | 220V DC                                    |          |         | 20          |
| BO          | Illumination Block with LED | 220V DC                                    |          |         | 20          |
| BP          | Illumination Block with LED | 220V DC                                    |          |         | 20          |
| BR          | Illumination Block with LED | 220V DC                                    |          |         | 20          |
| BT          | Illumination Block with LED | 220V DC                                    |          |         | 20          |
| BA          | Adapter                     |  |          |         | 100         |
| BEB         | Silicon Cover               | For Single Buttons                         |          |         | 20          |
| BEBK20      | Silicon Cover               | For Double Buttons                         |          |         | 20          |
| BEBK21      | Silicon Cover               | For Extended Double Buttons                |          |         | 20          |
| LED24*      | Ba9S LED                    | 24 V AC/DC                                 |          |         | 50          |
| LED220*     | Ba9S LED                    | 220V AC                                    |          |         | 50          |
| BBUTONORTA  | Contact Block Activator     |  |          |         | 50          |
| BSECICIORTA | Contact Block Activator     |  |          |         | 50          |

\*Please choose the colour and replace (\*) with the letter.



CP100DY



CP200DK



CP100DM



CP305DY



CP100FK



CP100FY



CP100HS



CP100HK



CP102K21KY



CP102K20KY



CP170S20



CP100S20



CP100MS



CP100MY



CP200EA30



CP200EP



CP200ECN30



CP200EE



CP200E



CP200EK30

## CP Series Plastic Control Units, 22 mm, IP 65

### Flush, Spring Return

| Code    | Contact Block Type | Colour*                 | Box/Pcs |
|---------|--------------------|-------------------------|---------|
| CP100D* | 1 NO               | (B) (K) (M) (S) (Y) (H) | 10      |
| CP101D* | 2 NO               | (B) (K) (M) (S) (Y) (H) | 10      |
| CP102D* | 1 NO + 1 NC        | (B) (K) (M) (S) (Y) (H) | 10      |
| CP200D* | 1 NC               | (B) (K) (M) (S) (Y) (H) | 10      |
| CP202D* | 2 NC               | (B) (K) (M) (S) (Y) (H) | 10      |
| CP303D* | 2 NO + 2 NO        | (B) (K) (M) (S) (Y) (H) | 5       |
| CP305D* | 2 NO + 2 NC        | (B) (K) (M) (S) (Y) (H) | 5       |

### Stay Put, Spring Return

| Code    | Contact Block Type | Colour*                 | Box/Pcs |
|---------|--------------------|-------------------------|---------|
| CP100F* | 1 NO               | (B) (K) (M) (S) (Y) (H) | 10      |
| CP200F* | 1 NC               | (B) (K) (M) (S) (Y) (H) | 10      |

### Extended, Spring Return

| Code    | Contact Block Type | Colour*                 | Box/Pcs |
|---------|--------------------|-------------------------|---------|
| CP100H* | 1 NO               | (B) (K) (M) (S) (Y) (H) | 10      |
| CP101H* | 2 NO               | (B) (K) (M) (S) (Y) (H) | 10      |
| CP102H* | 1 NO + 1 NC        | (B) (K) (M) (S) (Y) (H) | 10      |
| CP200H* | 1 NC               | (B) (K) (M) (S) (Y) (H) | 10      |
| CP202H* | 2 NC               | (B) (K) (M) (S) (Y) (H) | 10      |

### Double, Spring Return

| Ürün Kodu  | Tip      | Contact Block Type | Colour* | Box/Pcs |
|------------|----------|--------------------|---------|---------|
| CP102K20KY |          | 1 NO + 1 NC        | (R) (G) | 8       |
| CP102K20HB |          | 1 NO + 1 NC        | (R) (W) | 8       |
| CP102K21KY | Extended | 1 NO + 1 NC        | (R) (G) | 8       |
| CP102K21HB | Extended | 1 NO + 1 NC        | (R) (W) | 8       |

### Selector

| Code     | Type                 | Contact Block Type | Position | Colour* | Box/Pcs |
|----------|----------------------|--------------------|----------|---------|---------|
| CP100S20 |                      | 1 NO               | 0-1 ↓    | (●)     | 10      |
| CP100S21 | Spring Return        | 1 NO               | 0-1 ↘    | (●)     | 10      |
| CP101S30 |                      | 2 NO               | II-0-1 ↓ | (●)     | 10      |
| CP303S30 |                      | 2 NO + 2 NO        | II-0-1 ↓ | (●)     | 5       |
| CP305S30 |                      | 2 NO + 2 NC        | II-0-1 ↓ | (●)     | 5       |
| CP101S31 | Single Spring Return | 2 NO               | II-0-1 ↘ | (●)     | 10      |
| CP101S32 | Double Spring Return | 2 NO               | II-0-1 ↘ | (●)     | 10      |

### Mushroom, Spring Return

| Code    | Type                    | Contact Block Type | Colour*             | Box/Pcs |
|---------|-------------------------|--------------------|---------------------|---------|
| CP100M* | Mushroom, Spring Return | 1 NO               | (B) (K) (S) (Y) (H) | 10      |
| CP102M* | Mushroom, Spring Return | 1NO + 1NC          | (B) (K) (S) (Y) (H) | 10      |
| CP200M* | Mushroom, Spring Return | 1 NC               | (B) (K) (S) (Y) (H) | 10      |

### Emergency Stop

| Code       | Type                          | Contact Block Type | Dia (mm) | Colour* | Box/Pcs |
|------------|-------------------------------|--------------------|----------|---------|---------|
| CP200E30   | Turn to Release               | 1 NC               | 30       | (●)     | 10      |
| CP200ES30  | Turn to Release, With Signal  | 1 NC               | 30       | (●)     | 10      |
| CP200EA30  | Turn to Release, Key Operated | 1 NC               | 30       | (●)     | 10      |
| CP200ECN30 | Pull to Release               | 1 NC               | 30       | (●)     | 10      |
| CP200ECS30 | With Signal, Pull to Release  | 1 NC               | 30       | (●)     | 10      |
| CP200E     | Turn to Release               | 1 NC               | 40       | (●)     | 10      |
| CP200EP    | Pull to Release               | 1 NC               | 40       | (●)     | 10      |
| CP200EE    | With Label                    | 1 NC               | 40       | (●)     | 10      |
| CP200EK30  | Turn to Release-Short         | 1 NC               | 30       | (●)     | 10      |
| CP200EC    | Pull to Release               | 1 NC               | 40       | (●)     | 10      |

Note 1 : For "12-30V AC/DC" Voltage in LED illumination preferences, please use the numbers; 5: White, 6:Red, 7:Blue, 8: Yellow, 9: Green, instead of "0". i.e: CP160S20

Note 2 : For "48V AC/DC" Voltage in LED illumination preferences, please use the letters; Q: White, X:Red, V:Blue, W: Yellow, Z: Green, instead of "0".

Note 3 : For "100-230VAC" Voltage in LED illumination preferences, please use the letters; B: White, K:Red, M:Blue, S: Yellow, Y: Green, instead of "0". i.e: CP1B0DB

Note 4 : For "110V AC/DC" Voltage in LED illumination preferences, please use the letters; C: White, D:Red, E:Blue, F: Yellow, G: Green, instead of "0".



CP100AC20

| Key Operated |                      |                    |          |        |         |
|--------------|----------------------|--------------------|----------|--------|---------|
| Code         | Type                 | Contact Block Type | Position | Colour | Box/Pcs |
| CP100AA20    |                      | 1 NO               | 0-1      | ●      | 10      |
| CP100AA21    | Spring Return        | 1 NO               | 0-1      | ●      | 10      |
| CP101AA21    | Spring Return        | 2 NO               | 0-1      | ●      | 10      |
| CP101AA30    | Stay Put             | 2 NO               | II-0-1   | ●      | 10      |
| CP102AA30    |                      | 1 NO + 1 NC        | II-0-1   | ●      | 10      |
| CP101AA31    | Single Spring Return | 2 NO               | II-0-1   | ●      | 10      |
| CP101AA32    | Double Spring Return | 2 NO               | II-0-1   | ●      | 10      |
| CP100AC20    |                      | 1 NO               | 0-1      | ●      | 10      |
| CP101AC20    | Stay Put             | 2 NO               | 0-1      | ●      | 10      |
| CP100AC21    | Spring Return        | 1 NO               | 0-1      | ●      | 10      |
| CP101AC30    | Stay Put             | 2 NO               | II-0-1   | ●      | 10      |
| CP102AC30    |                      | 1 NO + 1 NC        | II-0-1   | ●      | 10      |
| CP101AC31    | Single Spring Return | 2 NO               | II-0-1   | ●      | 10      |
| CP101AC32    | Double Spring Return | 2 NO               | II-0-1   | ●      | 10      |

\* Ω Key withdrawal position



CP707DJ40

| Joystick  |               |          |        |         |
|-----------|---------------|----------|--------|---------|
| Code      | Type          | Position | Colour | Box/Pcs |
| CP101DJ20 |               | 2 Pos.   | ●      | 1       |
| CP101DJ21 | Spring Return | 2 Pos.   | ●      | 1       |
| CP707DJ40 |               | 4 Pos.   | ●      | 1       |
| CP707DJ41 | Spring Return | 4 Pos.   | ●      | 1       |



CPPR02K



CPPR05K

| Potentiometer (1,5W@70°C IP65) |                         |        |         |  |
|--------------------------------|-------------------------|--------|---------|--|
| Code                           | Features                | Colour | Box/Pcs |  |
| CPPR01K                        | 1 kΩ (Ceramic, Wired)   | ●      | 10      |  |
| CPPR02K                        | 2,2 kΩ (Ceramic, Wired) | ●      | 10      |  |
| CPPR05K                        | 5 kΩ (Ceramic, Wired)   | ●      | 10      |  |
| CPPR10K                        | 10 kΩ (Ceramic, Wired)  | ●      | 10      |  |
| CPPR100K                       | 100 kΩ (Ceramic, Wired) | ●      | 10      |  |



CP060XK



CP070XM



CP080XS



CP090XY

| CP Series Pilot Lights with Lamp Block |              |                 |        |         |
|--|--------------|-----------------|--------|---------|
| Code                                   | Illumination | Nominal Voltage | Colour | Box/Pcs |
| CP050XB                                | LED          | 12 - 30V AC/DC  | ○      | 10      |
| CP060XK                                | LED          | 12 - 30V AC/DC  | ●      | 10      |
| CP070XM                                | LED          | 12 - 30V AC/DC  | ●      | 10      |
| CP080XS                                | LED          | 12 - 30V AC/DC  | ●      | 10      |
| CP090XY                                | LED          | 12 - 30V AC/DC  | ●      | 10      |
| CP0Q0XB                                | LED          | 48V AC/DC       | ○      | 10      |
| CP0V0XM                                | LED          | 48V AC/DC       | ●      | 10      |
| CP0W0XS                                | LED          | 48V AC/DC       | ●      | 10      |
| CP0X0XK                                | LED          | 48V AC/DC       | ●      | 10      |
| CP0Z0XY                                | LED          | 48V AC/DC       | ●      | 10      |
| CP0B0XB                                | LED          | 100-230V AC     | ○      | 10      |
| CP0K0XK                                | LED          | 100-230V AC     | ●      | 10      |
| CP0M0XM                                | LED          | 100-230V AC     | ●      | 10      |
| CP0S0XS                                | LED          | 100-230V AC     | ●      | 10      |
| CP0Y0XY                                | LED          | 100-230V AC     | ●      | 10      |
| CP0C0XB                                | LED          | 110V AC/DC      | ○      | 10      |
| CP0D0XK                                | LED          | 110V AC/DC      | ●      | 10      |
| CP0E0XM                                | LED          | 110V AC/DC      | ●      | 10      |
| CP0F0XS                                | LED          | 110V AC/DC      | ●      | 10      |
| CP0G0XY                                | LED          | 110V AC/DC      | ●      | 10      |
| CP0N0XB                                | LED          | 220V DC         | ○      | 10      |
| CP0O0XK                                | LED          | 220V DC         | ●      | 10      |
| CP0P0XM                                | LED          | 220V DC         | ●      | 10      |
| CP0R0XS                                | LED          | 220V DC         | ●      | 10      |
| CP0T0XY                                | LED          | 220V DC         | ●      | 10      |

## CM Series Metal Control Units, 22 mm, IP 65



CM100DY



CM200DK

### Flush, Spring Return

| Code    | Contact Block Type | Colour | Box/Pcs |
|---------|--------------------|--------|---------|
| CM100D* | 1 NO               |        | 10      |
| CM101D* | 2 NO               |        | 10      |
| CM102D* | 1 NO + 1 NC        |        | 10      |
| CM200D* | 1 NC               |        | 10      |
| CM202D* | 2 NC               |        | 10      |
| CM305D* | 2 NO + 2 NC        |        | 5       |

\* Please choose the colour and replace (\*) with the letter.



CM100HK



CM100HY

### Extended, Spring Return

| Code    | Contact Block Type | Colour | Box/Pcs |
|---------|--------------------|--------|---------|
| CM100H* | 1 NO               |        | 10      |
| CM101H* | 2 NO               |        | 10      |
| CM102H* | 1 NO + 1 NC        |        | 10      |
| CM200H* | 1 NC               |        | 10      |
| CM202H* | 2 NC               |        | 10      |



CM102K21KY



CM102K20KY

### Double, Spring Return

| Code       | Type            | Contact Block Type | Colour | Box/Pcs |
|------------|-----------------|--------------------|--------|---------|
| CM102K20KY |                 | 1 NO + 1 NC        |        | 8       |
| CM102K20HB |                 | 1 NO + 1 NC        |        | 8       |
| CM102K21KY | Double Extended | 1 NO + 1 NC        |        | 8       |
| CM102K21HB | Double Extended | 1 NO + 1 NC        |        | 8       |



CM190S20



CM100S20

### Selector

| Code     | Type                 | Contact Block Type | Position | Colour | Box/Pcs |
|----------|----------------------|--------------------|----------|--------|---------|
| CM100S20 |                      | 1 NO               | 0-1      |        | 10      |
| CM100S21 | Spring Return        | 1 NO               | 0-1      |        | 10      |
| CM101S30 |                      | 2 NO               | II-0-1   |        | 10      |
| CM303S30 |                      | 2 NO + 2 NO        | II-0-1   |        | 10      |
| CM101S31 | Single Spring Return | 2 NO               | II-0-1   |        | 10      |
| CM101S32 | Double Spring Return | 2 NO               | II-0-1   |        | 10      |

Note 1 : For "12-30V AC/DC" Voltage in LED illumination preferences, please use the numbers; 5: White, 6:Red, 7:Blue, 8: Yellow, 9: Green, instead of "0". i.e: CM160S20

Note 2 : For "48V AC/DC" Voltage in LED illumination preferences, please use the letters; Q: White, X:Red, V:Blue, W: Yellow, Z: Green, instead of "0".

Note 3 : For "100-230VAC" Voltage in LED illumination preferences, please use the letters; B: White, K:Red, M:Blue, S: Yellow, Y: Green, instead of "0". i.e: CM1B0DB

Note 4 : For "110V AC/DC" Voltage in LED illumination preferences, please use the letters; C: White, D:Red, E:Blue, F: Yellow, G: Green, instead of "0".



CM100MH



CM100MY

### Mushroom, Spring Return

| Code    | Type                    | Contact Block Type | Colour* | Box/Pcs |
|---------|-------------------------|--------------------|---------|---------|
| CM100M* | Mushroom, Spring Return | 1 NO               |         | 10      |
| CM102M* | Mushroom, Spring Return | 1NO + 1NC          |         | 10      |
| CM200M* | Mushroom, Spring Return | 1 NC               |         | 10      |



CM200E



CM200EE

### Emergency Stop

| Code      | Type                        | Contact Block Type | Dia (mm) | Colour | Box/Pcs |
|-----------|-----------------------------|--------------------|----------|--------|---------|
| CM200E    | Turn to Release             | 1 NC               | 40       |        | 10      |
| CM200EE   | Turn to Release, With Label | 1 NC               | 40       |        | 10      |
| CM200EK30 | Short, Turn to Release      | 1 NC               | 30       |        | 10      |



CM112AA20



CM100AC20

## Key Operated

| Code      | Type                 | Contact Block Type | Position | Colour | Box/Pcs |
|-----------|----------------------|--------------------|----------|--------|---------|
| CM100AA20 |                      | 1 NO               | 0-I      | ●      | 10      |
| CM112AA20 |                      | 2 NO + 1 NC        | 0-I      | ●      | 10      |
| CM100AA21 | Spring Return        | 1 NO               | 0-I      | ●      | 10      |
| CM102AA30 |                      | 1 NO + 1 NC        | II-0-I   | ●      | 10      |
| CM101AA31 | Single Spring Return | 2 NO               | II-0-I   | ●      | 10      |
| CM101AA32 | Double Spring Return | 2 NO               | II-0-I   | ●      | 10      |
| CM102AA20 |                      | 1 NO + 1 NC        | 0-I      | ●      | 10      |
| CM100AC20 |                      | 1 NO               | 0-I      | ●      | 10      |
| CM102AC20 |                      | 1 NO + 1 NC        | 0-I      | ●      | 10      |
| CM102AC30 |                      | 1 NO + 1 NC        | II-0-I   | ●      | 10      |

\* Ω Key removal position



CM707DJ40

## Joystick

| Code      | Type          | Position | Colour | Box/Pcs |
|-----------|---------------|----------|--------|---------|
| CM101DJ20 |               | 2 Pos.   | ●      | 1       |
| CM101DJ21 | Spring Return | 2 Pos.   | ●      | 1       |
| CM707DJ40 |               | 4 Pos.   | ●      | 1       |
| CM707DJ41 | Spring Return | 4 Pos.   | ●      | 1       |



CM090XY



CM060XK



CM070XM



CM080XS

## CM Series Pilot Lights with Lamp Block

| Code    | Illumination | Nominal Voltage | Colour | Box/Pcs |
|---------|--------------|-----------------|--------|---------|
| CM050XB | LED          | 12 - 30V AC/DC  | ○      | 10      |
| CM060XK | LED          | 12 - 30V AC/DC  | ●      | 10      |
| CM070XM | LED          | 12 - 30V AC/DC  | ●      | 10      |
| CM080XS | LED          | 12 - 30V AC/DC  | ●      | 10      |
| CM090XY | LED          | 12 - 30V AC/DC  | ●      | 10      |
| CM0Q0XB | LED          | 48V AC/DC       | ○      | 10      |
| CM0V0XM | LED          | 48V AC/DC       | ●      | 10      |
| CM0W0XS | LED          | 48V AC/DC       | ●      | 10      |
| CM0X0XK | LED          | 48V AC/DC       | ●      | 10      |
| CM0Z0XY | LED          | 48V AC/DC       | ●      | 10      |
| CM0B0XB | LED          | 100-230V AC     | ○      | 10      |
| CM0K0XK | LED          | 100-230V AC     | ●      | 10      |
| CM0M0XM | LED          | 100-230V AC     | ●      | 10      |
| CM0S0XS | LED          | 100-230V AC     | ●      | 10      |
| CM0Y0XY | LED          | 100-230V AC     | ●      | 10      |
| CM0C0XB | LED          | 110V AC/DC      | ○      | 10      |
| CM0D0XK | LED          | 110V AC/DC      | ●      | 10      |
| CM0E0XM | LED          | 110V AC/DC      | ●      | 10      |
| CM0F0XS | LED          | 110V AC/DC      | ●      | 10      |
| CM0G0XY | LED          | 110V AC/DC      | ●      | 10      |
| CM0N0XB | LED          | 220V DC         | ○      | 10      |
| CM0O0XK | LED          | 220V DC         | ●      | 10      |
| CM0P0XM | LED          | 220V DC         | ●      | 10      |
| CM0R0XS | LED          | 220V DC         | ●      | 10      |
| CM0T0XY | LED          | 220V DC         | ●      | 10      |

## Spare Parts for CP/CM Series Control Units



C1



C2



C11



C12



C3BK



C3CK



C4BK



C4CK



CPDXX



CPDS20



CPDDY

| Code     | Type                                       | Features               | Colour      | Box/Pcs |
|----------|--|------------------------|-------------|---------|
| C1       | Contact Block                              | 1 NO                   | ●           | 20      |
| C2       | Contact Block                              | 1 NC                   | ●           | 20      |
| C1AU     | Gold Plated Contact Block                  | 1 NO                   | ●           | 20      |
| C2AU     | Gold Plated Contact Block                  | 1 NC                   | ●           | 20      |
| C11      | Contact Block                              | 2 NO                   | ●           | 20      |
| C12      | Joystick Contact Block                     | 2 NO                   | ●           | 20      |
| C3BK     | Contact Block for Control Boxes (B Series) | 1 NO                   | ●           | 20      |
| C4BK     | Contact Block for Control Boxes (B Series) | 1 NC                   | ●           | 20      |
| C3CK     | Contact Block for Control Boxes (C Series) | 1 NO                   | ●           | 20      |
| C4CK     | Contact Block for Control Boxes (C Series) | 1 NC                   | ●           | 20      |
| CPDD*    | Plastic, Flush                             | IP65                   | ● ● ● ● ● ● | 20      |
| CPDF*    | Plastic, Stay Put                          | IP65                   | ● ● ● ● ● ● | 20      |
| CPDH*    | Plastic-Extended                           | IP65                   | ● ● ● ● ● ● | 20      |
| CPDM*    | Plastic, Mushroom                          | IP65                   | ● ● ● ● ● ● | 20      |
| CPDM72*  | Plastic, Mushroom                          | IP65                   | ● ●         | 20      |
| CPDS20   | Selector - Plastic                         | IP65                   | ●           | 20      |
| CPDS30   | Selector - Plastic                         | IP65                   | ●           | 20      |
| CPDX*    | Pilot - Plastic                            | IP65                   | ● ● ● ● ●   | 20      |
| CPDE     | Emergency Stop Head                        | IP65 - Turn to Release | ●           | 20      |
| CPDE30   | Emergency Stop Head                        | IP65 - Turn to Release | ●           | 20      |
| CPDEA30  | Emergency Stop Head                        | IP65 - Key Operated    | ●           | 20      |
| CPDECN30 | Emergency Stop Head                        | IP65 - Pull to Release | ●           | 20      |
| CPDES30  | Emergency Stop Head                        | IP65 - With Signal     | ●           | 20      |
| CMDD*    | Metal-Flush                                | IP65                   | ● ● ● ● ● ● | 20      |
| CMDH*    | Metal-Extended                             | IP65                   | ● ● ● ● ● ● | 20      |
| CMDM*    | Metal, Mushroom                            | IP65                   | ● ● ● ● ●   | 20      |
| CMDS20   | Selector - Metal                           | IP65                   | ●           | 20      |
| CMDS30   | Selector - Metal                           | IP65                   | ●           | 20      |
| CMDX*    | Pilot - Metal                              | IP65                   | ● ● ● ● ●   | 20      |
| CMDE     | Emergency Stop Head                        | IP65 - Turn to Release | ●           | 20      |

\* Please choose the colour and replace (\*) with the letter. Example: CMDXY.

## CP/CM Series Spares

### For Control Units / For Control Boxes



CBB



CA

| Code        | Type                             | Features     | Colour | Box/Pcs |
|-------------|----------------------------------|--------------|--------|---------|
| CB5 / CK5   | Illumination Block with LED      | 12-30V AC/DC | ○      | 20      |
| CB6 / CK6   | Illumination Block with LED      | 12-30V AC/DC | ●      | 20      |
| CB7 / CK7   | Illumination Block with LED      | 12-30V AC/DC | ●      | 20      |
| CB8 / CK8   | Illumination Block with LED      | 12-30V AC/DC | ●      | 20      |
| CB9 / CK9   | Illumination Block with LED      | 12-30V AC/DC | ●      | 20      |
| CBQ / CKQ   | Illumination Block with LED      | 48V AC/DC    | ○      | 20      |
| CBX / CKX   | Illumination Block with LED      | 48V AC/DC    | ●      | 20      |
| CBV / CKV   | Illumination Block with LED      | 48V AC/DC    | ●      | 20      |
| CBW / CKW   | Illumination Block with LED      | 48V AC/DC    | ●      | 20      |
| CBZ / CKZ   | Illumination Block with LED      | 48V AC/DC    | ●      | 20      |
| CBB / CKB   | Illumination Block with LED      | 100-230V AC  | ○      | 20      |
| CBK / CKK   | Illumination Block with LED      | 100-230V AC  | ●      | 20      |
| CBM / CKM   | Illumination Block with LED      | 100-230V AC  | ●      | 20      |
| CBS / CKS   | Illumination Block with LED      | 100-230V AC  | ●      | 20      |
| CBY / CKY   | Illumination Block with LED      | 100-230V AC  | ●      | 20      |
| CBC / CKC   | Illumination Block with LED      | 110V AC/DC   | ○      | 20      |
| CBD / CKD   | Illumination Block with LED      | 110V AC/DC   | ●      | 20      |
| CBE / CKE   | Illumination Block with LED      | 110V AC/DC   | ●      | 20      |
| CBF / CKF   | Illumination Block with LED      | 110V AC/DC   | ●      | 20      |
| CBG / CKG   | Illumination Block with LED      | 110V AC/DC   | ●      | 20      |
| CBN         | Illumination Block with LED      | 220V DC      | ○      | 20      |
| CBO         | Illumination Block with LED      | 220V DC      | ●      | 20      |
| CBP         | Illumination Block with LED      | 220V DC      | ●      | 20      |
| CBR         | Illumination Block with LED      | 220V DC      | ●      | 20      |
| CBT         | Illumination Block with LED      | 220V DC      | ●      | 20      |
| CA          | Adapter                          |              |        | 20      |
| CEA         | Additional Adapter               |              |        | 10      |
| CEB         | Silicon Cover For Single Buttons |              |        | 20      |
| CBUTONORTA  | Contact Block Activator          |              |        | 20      |
| CSECICIORTA | Contact Block Activator          |              |        | 20      |

## Pad Printed Control Units ( matt surface without illumination )



CM101K20YYOK CM100DYOD



CEB



BPROT BMUHAFAZA



BET60P BPUL



BET60LED1 BET60LED2



BET60FLASH1 BET60FLASH2



BROZET18 BROZET08



BARP EMNKAPAK

|       |             |             |             |             |             |             |             |             |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| CODE  |             |             |             |             |             |             |             |             |
| PRINT | B102K20KY10 | B101K20YY12 | B101K20YYOK | B102K20HB10 | B101K20HHOK | B101K20BB12 | B101K20SH10 | B101K20SS12 |
| CODE  |             |             |             |             |             |             |             |             |
| PRINT | B100DYOD    | B100DYOY    | B100DHOD    | B100DHOY    | B100DBOD    | B100DBOY    | B100DBZ     | B100DBL     |
| CODE  |             |             |             |             |             |             |             |             |
| PRINT | B100DY1     | B100DY2     | B100DB1     | B100DB2     | B200DK0     | B200DH0     | B200DSZ     | B200DSL     |
| PRINT | MB100DY1    | MB100DY2    | MB100DB1    | MB100DB2    | MB200DK0    | MB200DH0    | MB200DSZ    | MB200DSL    |

Note : Minimum Order Quantity : 50 pcs

## Accessories for B and C Series Control Units

| Code           | Type  | Features                     | Box/ Pcs |
|----------------|---|------------------------------|----------|
| BROZET08       | Legend Plate Holder                         |                              | 100      |
| BROZET18       | Legend Plate Holder                         |                              | 100      |
| BCIFLTIROZET18 | Double Legend Plate Holder                  |                              | 100      |
| BET08          | Legend Plate                                | Unmarked                     | 100      |
| BET18          | Legend Plate                                | Unmarked                     | 100      |
| BET08START     | Legend Plate                                | (START) Marked               | 100      |
| BET08STOP      | Legend Plate                                | (STOP) Marked                | 100      |
| BET0801        | Legend Plate                                | (0-I) Marked                 | 100      |
| BET0801OK      | Legend Plate                                | (0-I) (Arrow) Sign Marked    | 100      |
| BET08201       | Legend Plate                                | (II-0-I) Marked              | 100      |
| BET08201OK     | Legend Plate                                | (II-0-I) (Arrow) Sign Marked | 100      |
| BET080         | Legend Plate, Transparent                   | Unmarked                     | 100      |
| BET180         | Legend Plate, Transparent                   | Unmarked                     | 100      |
| BET60P         | Legend Plate, Plastic                       | (EMERGENCY STOP) Marked      | 10       |
| BET90P         | Legend Plate, Plastic                       | (EMERGENCY STOP) Marked      | 10       |
| BET60A         | Legend Plate, Aluminium                     | (EMERGENCY STOP) Marked      | 10       |
| BET90A         | Legend Plate, Aluminium                     | (EMERGENCY STOP) Marked      | 10       |
| BET60LED0      | Legend Plate, Constant Blinking LED,Plastic | Empty                        | 1        |
| BET60LED2      | Legend Plate, Constant Blinking LED,Plastic | (EMERGENCY-EMERGENCY) Marked | 1        |
| BET60LED4      | Legend Plate, Constant Blinking LED,Plastic | (NOUZOVY STOP) Marked        | 1        |
| BET60FLASH0    | Legend Plate, Flash Blinking LED,Plastic    | Empty                        | 1        |
| BET60FLASH2    | Legend Plate, Flash Blinking LED,Plastic    | (EMERGENCY-EMERGENCY) Marked | 1        |
| BET60FLASH3    | Legend Plate, Flash Blinking LED,Plastic    | (Attention) Sign Marked      | 1        |
| BMUHAFAZA      | Emergency Protective Cover                  | Protection Guard             | 1        |
| CMUHAFAZA      | Emergency Protective Cover                  | Protection Guard             | 1        |
| BPUL           | Plate                                       | Button Tightening            | 20       |
| TIPASOM        | Stopper and Nut                             | 2 options Black and Gray     | 20       |
| BEB            | Silicon Button Cover for B Series           | For Single Buttons           | 20       |
| CEB            | Silicon Button Cover for C Series           | For Single Buttons           | 20       |
| BEBK20         | Silicon Button Cover                        | For Double Buttons           | 20       |
| BEBK21         | Silicon Button Cover                        | For Extended Double Buttons  | 20       |
| BPROT          | Protective Cover                            |                              | 24       |
| BSOMAN         | Nut Tightener                               |                              | 10       |
| BARP           | DIN Rail Adapter for M22 Control Units      |                              | 1        |
| EMNKAPAK       | Emergency Safety Cover                      |                              | 1        |



BET08201OK2

BET08201OK

BET08

BET18

BET08START

BET08STOP

BET0801

BET0801OK

BET08201

## D Series Control Units, 16 mm, IP 50



D100DDK



D100DDY

### Rectangle, Spring Return

| Code    | Contact Block Type | Colour* | Box/Pcs |
|---------|--------------------|---------|---------|
| D100DD* | 1 NO               |         | 10      |
| D101DD* | 2 NO               |         | 10      |
| D102DD* | 1 NO + 1 NC        |         | 10      |
| D200DD* | 1 NC               |         | 10      |
| D202DD* | 2 NC               |         | 10      |



D100KDM



D200KDK

### Square, Spring Return

| Code    | Contact Block Type | Colour* | Box/Pcs |
|---------|--------------------|---------|---------|
| D100KD* | 1 NO               |         | 10      |
| D101KD* | 2 NO               |         | 10      |
| D102KD* | 1 NO + 1 NC        |         | 10      |
| D200KD* | 1 NC               |         | 10      |
| D202KD* | 2 NC               |         | 10      |



D100YDS



D200YDK

### Round, Spring Return

| Code    | Contact Block Type | Colour* | Box/Pcs |
|---------|--------------------|---------|---------|
| D100YD* | 1 NO               |         | 10      |
| D101YD* | 2 NO               |         | 10      |
| D102YD* | 1 NO + 1 NC        |         | 10      |
| D200YD* | 1 NC               |         | 10      |
| D202YD* | 2 NC               |         | 10      |



D101YS30

### Round, Selector

| Code     | Type                 | Contact Block Type | Position | Colour | Box/Pcs |
|----------|----------------------|--------------------|----------|--------|---------|
| D100YS20 |                      | 1 NO               | 0-1      |        | 10      |
| D100YS21 | Spring Return        | 1 NO               | 0-1      |        | 10      |
| D101YS30 |                      | 2 NO               | II-0-1   |        | 10      |
| D101YS31 | Single Spring Return | 2 NO               | II-0-1   |        | 10      |
| D101YS32 | Double Spring Return | 2 NO               | II-0-1   |        | 10      |



D100YM30K

### Mushroom, Spring Return

| Code      | Contact Block Type | Colour* | Box/Pcs |
|-----------|--------------------|---------|---------|
| D100YM30* | 1 NO               |         | 10      |
| D102YM30* | 1 NO + 1 NC        |         | 10      |
| D200YM30* | 1 NC               |         | 10      |



D200YE30K

### Emergency Stop

| Code      | Contact Block Type | Colour* | Box/Pcs |
|-----------|--------------------|---------|---------|
| D100YE30K | 1 NO               |         | 10      |
| D102YE30K | 1 NO + 1 NC        |         | 10      |
| D200YE30K | 1 NC               |         | 10      |



D1



D2

### D Serisi Yedekleri

| Code | Contact Block Type | Colour* | Box/Pcs |
|------|--------------------|---------|---------|
| D1   | 1 NO               |         | 10      |
| D2   | 1 NC               |         | 10      |
| D5   | 24V AC/DC          |         | 10      |
| D6   | 24V AC/DC          |         | 10      |
| D7   | 24V AC/DC          |         | 10      |
| D8   | 24V AC/DC          |         | 10      |
| D9   | 24V AC/DC          |         | 10      |
| DA   | Button Adapter     |         | 10      |



D7



D060DXK



D090YXY



D080KXS



D070YXM

## D Series 16 mm Pilot Lights

| Code    | Pilot Shape | Illumination | Nominal Voltage | Colour | Box/Pcs |
|---------|-------------|--------------|-----------------|--------|---------|
| D050DXB | Rectangle   | LED          | 12-24V AC/DC    | White  | 10      |
| D060DXK | Rectangle   | LED          | 12-24V AC/DC    | Red    | 10      |
| D070DXM | Rectangle   | LED          | 12-24V AC/DC    | Blue   | 10      |
| D080DXS | Rectangle   | LED          | 12-24V AC/DC    | Yellow | 10      |
| D090DXY | Rectangle   | LED          | 12-24V AC/DC    | Green  | 10      |
| D050KXB | Square      | LED          | 12-24V AC/DC    | White  | 10      |
| D060KXK | Square      | LED          | 12-24V AC/DC    | Red    | 10      |
| D070KXM | Square      | LED          | 12-24V AC/DC    | Blue   | 10      |
| D080KXS | Square      | LED          | 12-24V AC/DC    | Yellow | 10      |
| D090KXY | Square      | LED          | 12-24V AC/DC    | Green  | 10      |
| D050YXB | Round       | LED          | 12-24V AC/DC    | White  | 10      |
| D060YXK | Round       | LED          | 12-24V AC/DC    | Red    | 10      |
| D070YXM | Round       | LED          | 12-24V AC/DC    | Blue   | 10      |
| D080YXS | Round       | LED          | 12-24V AC/DC    | Yellow | 10      |
| D090YXY | Round       | LED          | 12-24V AC/DC    | Green  | 10      |

## H Series Control Units, 30 mm, IP 50

### Flush, Spring Return



H100DY



H200DK

| Code   | Contact Block Type | Colour*     | Box/Pcs |
|--------|--------------------|-------------|---------|
| H100D* | 1 NO               | B K M S Y H | 10      |
| H101D* | 2 NO               | B K M S Y H | 10      |
| H102D* | 1 NO + 1 NC        | B K M S Y H | 10      |
| H200D* | 1 NC               | B K M S Y H | 10      |
| H202D* | 2 NC               | B K M S Y H | 10      |

Spare Parts: Use Contact Blocks and Illumination Contact Blocks from B Series.

### Extended, Spring Return



H100HY



H102HS

| Code   | Contact Block Type | Colour*     | Box/Pcs |
|--------|--------------------|-------------|---------|
| H100H* | 1 NO               | B K M S Y H | 10      |
| H101H* | 2NO                | B K M S Y H | 10      |
| H102H* | 1NO + 1 NC         | B K M S Y H | 10      |
| H200H* | 1 NC               | B K M S Y H | 10      |
| H202H* | 2 NC               | B K M S Y H | 10      |

### Mushroom, Spring Return



H100MS

| Code   | Contact Block Type | Colour* | Box/Pcs |
|--------|--------------------|---------|---------|
| H100M* | 1 NO               | K S Y H | 10      |
| H200M* | 1 NC               | K S Y H | 10      |
| H102M* | 1 NO + 1 NC        | K S Y H | 10      |

### Selector



H100S20



H101S30

| Code    | Type                 | Contact Block Type | Position | Degree | Colour | Box/Pcs |
|---------|----------------------|--------------------|----------|--------|--------|---------|
| H100S20 |                      | 1NO                | 0-I      | 60     | H      | 10      |
| H100S21 | Spring Return        | 1NO                | 0-I      | 60     | H      | 10      |
| H101S30 |                      | 2NO                | II-0-I   | 60     | H      | 10      |
| H101S31 | Single Spring Return | 2NO                | II-0-I   | 60     | H      | 10      |
| H101S32 | Double Spring Return | 2NO                | II-0-I   | 60     | H      | 10      |

### Emergency Stop



H200EE

| Code   | Type                       | Contact Block Type | Colour* | Box/Pcs |
|--------|----------------------------|--------------------|---------|---------|
| H200E  | Turn to Release            | 1 NC               | K       | 10      |
| H200EE | Turn to Release With Label | 1 NC               | K       | 10      |

### H Series Pilot Lights



H060XK

| Code   | Illumination             | Nominal Voltage | Colour | Box/Pcs |
|--------|--------------------------|-----------------|--------|---------|
| H030X* | With Lampholder for BA9S |                 | K S Y  | 10      |
| H050XB | LED                      | 12-30V AC/DC    | B      | 10      |
| H060XK | LED                      | 12-30V AC/DC    | K      | 10      |
| H070XM | LED                      | 12-30V AC/DC    | M      | 10      |
| H080XS | LED                      | 12-30V AC/DC    | S      | 10      |
| H090XY | LED                      | 12-30V AC/DC    | Y      | 10      |



HPMR10K2

## Potentiometer - Digital Display (1,5W@70°C IP65)

| Code     | Range | Number of Turns | Operational Voltage | Output Voltage | Box/Pcs |
|----------|-------|-----------------|---------------------|----------------|---------|
| HPMR01K1 | 1 KΩ  | Multi Turn      | 24V DC              | 10 V DC        | 1       |
| HPMR02K1 | 2 KΩ  | Multi Turn      | 24V DC              | 10 V DC        | 1       |
| HPMR05K1 | 5 KΩ  | Multi Turn      | 24V DC              | 10 V DC        | 1       |
| HPMR10K1 | 10 KΩ | Multi Turn      | 24V DC              | 10 V DC        | 1       |
| HPMR01K2 | 1 KΩ  | Multi Turn      | 24V DC              | 24 V DC        | 1       |
| HPMR02K2 | 2 KΩ  | Multi Turn      | 24V DC              | 24 V DC        | 1       |
| HPMR05K2 | 5 KΩ  | Multi Turn      | 24V DC              | 24 V DC        | 1       |
| HPMR10K2 | 10 KΩ | Multi Turn      | 24V DC              | 24 V DC        | 1       |

## KB Series Control Units, 22 mm, IP 40

### Flush, Spring Return



KB34DY



KB14RS-0

| Code    | Type                           | Contact Block Type | Colour              | Box/Pcs |
|---------|--------------------------------|--------------------|---------------------|---------|
| KB12D*  |                                | 1 NC               | (B) (K) (M) (S) (Y) | 10      |
| KB34D*  |                                | 1 NO               | (B) (K) (M) (S) (Y) | 10      |
| KB14D*  |                                | 1 NC + 1 NO        | (B) (K) (M) (S) (Y) | 10      |
| KB12R*  | With Silicon Cover             | 1 NC               | (B) (K) (M) (S) (Y) | 10      |
| KB34R*  | With Silicon Cover             | 1 NO               | (B) (K) (M) (S) (Y) | 10      |
| KB14R*  | With Silicon Cover             | 1 NC + 1 NO        | (B) (K) (M) (S) (Y) | 10      |
| KB14R*0 | With Silicon Cover, With Arrow | 1 NC + 1 NO        | (B) (K) (M) (S) (Y) | 10      |
| KB34R*0 | With Silicon Cover, With Arrow | 1 NO               | (B) (K) (M) (S) (Y) | 10      |
| KB12R*0 | With Silicon Cover, With Arrow | 1 NC               | (B) (K) (M) (S) (Y) | 10      |

### Selector



KB34S2

| Code   | Contact Block Type | Colour | Box/Pcs |
|--------|--------------------|--------|---------|
| KB34S2 | 1 NO               | ●      | 10      |
| KB14S2 | 1 NO + 1 NC        | ●      | 10      |

### Handle



KB12C

| Code  | Contact Block Type | Colour | Box/Pcs |
|-------|--------------------|--------|---------|
| KB12C | 1 NC               | (B)    | 10      |
| KB34C | 1 NO               | (B)    | 10      |
| KB14C | 1 NO + 1 NC        | (B)    | 10      |

### Key Operated



KB14A2

| Code   | Contact Block Type | Colour | Box/Pcs |
|--------|--------------------|--------|---------|
| KB14A2 | 1 NO + 1 NC        | ●      | 1       |

### Mushroom



KB12MK

| Code   | Contact Block Type | Colour      | Box/Pcs |
|--------|--------------------|-------------|---------|
| KB12M* | 1 NC               | (K) (S) (Y) | 10      |
| KB34M* | 1 NO               | (K) (S) (Y) | 10      |
| KB14M* | 1 NO + 1 NC        | (K) (S) (Y) | 10      |

### Acil Stop Tip



KB12E

| Code  | Type            | Contact Block | Colour | Box/Pcs |
|-------|-----------------|---------------|--------|---------|
| KB12E | Turn to Release | 1 NC          | ●      | 10      |
| KB14E | Turn to Release | 1 NO + 1 NC   | ●      | 10      |

### Spare Parts for KB Series Control Units



KB12

| Code  | Type                           | Contact Block | Colour              | Box/Pcs |
|-------|--------------------------------|---------------|---------------------|---------|
| KB12  | Contact Block                  | 1 NC          |                     | 100     |
| KB34B | Contact Block                  | 1 NO          |                     | 100     |
| KB14B | Contact Block, For Push Button | 1 NO + 1 NC   |                     | 100     |
| KB14K | Contact Block, For Box         | 1 NO + 1 NC   |                     | 100     |
| D*    | Button Head                    |               | (B) (K) (M) (S) (Y) | 100     |

\*Please choose the colour and replace (\*) with the letter.

## MB Series Monoblock Control Units, 22 mm, IP 50



MB102DM



MB100DY

### Flush, Spring Return

| Code    | Contact Block | Colour | Box/Pcs |
|---------|---------------|--------|---------|
| MB100D* | 1 NO          |        | 10      |
| MB102D* | 1 NO + 1 NC   |        | 10      |
| MB200D* | 1 NC          |        | 10      |
| MB101D* | 2 NO          |        | 10      |
| MB202D* | 2 NC          |        | 10      |



MB100FY

### Stay-Put, Spring Return

| Code    | Contact Block | Colour | Box/Pcs |
|---------|---------------|--------|---------|
| MB100F* | 1 NO          |        | 10      |
| MB200F* | 1 NC          |        | 10      |
| MB101F* | 2 NO          |        | 10      |
| MB102F* | 1 NO + 1 NC   |        | 10      |



MB100HY

### Extended, Spring Return

| Code    | Contact Block | Colour | Box/Pcs |
|---------|---------------|--------|---------|
| MB100H* | 1 NO          |        | 10      |
| MB101H* | 2 NO          |        | 10      |
| MB102H* | 1 NO + 1 NC   |        | 10      |
| MB200H* | 1 NC          |        | 10      |
| MB202H* | 2 NC          |        | 10      |



MB100S20

| Code     | Type                 | Contact Block | Position | Degree | Colour | Box/Pcs |
|----------|----------------------|---------------|----------|--------|--------|---------|
| MB100S20 |                      | 1 NO          | 0-1      | 60°    |        | 10      |
| MB100S21 | Spring Return        | 1 NO          | 0-1      | 60°    |        | 10      |
| MB101S30 |                      | 2 NO          | II-0-I   | 60°    |        | 10      |
| MB101S31 | Single Spring Return | 2 NO          | II-0-I   | 60°    |        | 10      |
| MB101S32 | Double Spring Return | 2 NO          | II-0-I   | 60°    |        | 10      |



MB200E



MB200EE

### Emergency Stop

| Code    | Type                        | Contact Block | Diameter | Colour | Box/Pcs |
|---------|-----------------------------|---------------|----------|--------|---------|
| MB200E  | Turn to Release             | 1 NC          | 40       |        | 10      |
| MB202E  | Turn to Release             | 2 NC          | 40       |        | 10      |
| MB200EE | With Label, Turn to Release | 1 NC          | 40       |        | 10      |
| MB202EE | With Label, Turn to Release | 2 NC          | 40       |        | 10      |



MB200MK

### Mushroom Head

| Code    | Contact Block | Colour | Box/Pcs |
|---------|---------------|--------|---------|
| MB100M* | 1 NO          |        | 10      |
| MB101M* | 2 NO          |        | 10      |
| MB102M* | 1 NO + 1 NC   |        | 10      |
| MB200M* | 1 NC          |        | 10      |
| MB202M* | 2 NC          |        | 10      |



MBSD024Y



MBSP220M

### Monoblock Pilot Lights (LED) IP54

| Code     | Features | Nominal Voltage | Colour | Box/Pcs |
|----------|----------|-----------------|--------|---------|
| MBSD012* | Flat     | 12V AC/DC       |        | 10      |
| MBSD024* | Flat     | 24V AC/DC       |        | 10      |
| MBSD110* | Flat     | 110V AC         |        | 10      |
| MBSD220* | Flat     | 220V AC         |        | 10      |
| MBSP012* | Cellular | 12V AC/DC       |        | 10      |
| MBSP024* | Cellular | 24V AC/DC       |        | 10      |
| MBSP110* | Cellular | 110V AC         |        | 10      |
| MBSP220* | Cellular | 220V AC         |        | 10      |



MBSD024S



MBSP110K

\*Please choose the colour and replace (\*) with the letter.

## Monoblock Buzzers IP50



MBZS024S



MBZX220S

### MB Series Ø 22 mm Monoblock Buzzer (LED), 90 db(10 cm Distance)

| Code     | Features              | Nominal Voltage | Box/Pcs |
|----------|-----------------------|-----------------|---------|
| MBZS012S | With LED Illumination | 12V AC/DC       | 10      |
| MBZS024S | With LED Illumination | 24V AC/DC       | 10      |
| MBZS110S | With LED Illumination | 110V AC         | 10      |
| MBZS220S | With LED Illumination | 220V AC         | 10      |
| MBZX012S |                       | 12V AC/DC       | 10      |
| MBZX024S |                       | 24V AC/DC       | 10      |
| MBZX110S |                       | 110V AC         | 10      |
| MBZX220S |                       | 220V AC         | 10      |

Note: For IP65 preferences, please add "E" letter to end of the code.  
In case of IP65 preferences, volume will be decreased 5 db.



S100LK



S102NS



S140NK



S224NB



S140NY2



S222LS



S106N

## Pilot Lights

| Code       | Dia (mm) | Illumination         | Features                 | Voltage   | Colour              | Box/Pcs |
|------------|----------|----------------------|--------------------------|-----------|---------------------|---------|
| S060N*     | 6        | Bulb                 | 12cm Cable               | 230V AC   | (B) (K) (M) (S) (Y) | 100     |
| S100N*     | 10       | Bulb                 | 12cm Cable               | 230V AC   | (B) (K) (M) (S) (Y) | 100     |
| S100L*     | 10       | LED                  | 12cm Cable               | 230V AC   | (B) (K) (M) (S) (Y) | 100     |
| S100L*1    | 10       | LED                  | 12cm Cable               | 12V AC/DC | (B) (K) (M) (S) (Y) | 100     |
| S100L*2    | 10       | LED                  | 12cm Cable               | 24V AC/DC | (B) (K) (M) (S) (Y) | 100     |
| S100N*5SP0 | 10       | Bulb                 | 12cm, With Silicon Cable | 230V AC   | (B) (K) (M) (S) (Y) | 100     |
| S102N*     | 10       | Bulb                 | With Terminal            | 230V AC   | (B) (K) (M) (S) (Y) | 50      |
| S105N*     | 10       | Bulb                 | Nutless, with Terminal   | 230V AC   | (B) (K) (M) (S) (Y) | 50      |
| S106N*     | 10       | Bulb                 | Nutless, with Cable      | 230V AC   | (B) (K) (M) (S) (Y) | 100     |
| S140N*     | 14       | Bulb                 | With Terminal            | 230V AC   | (B) (K) (M) (S) (Y) | 50      |
| S140N*1    | 14       | Bulb                 | With Terminal            | 12V DC    | (B) (K) (M) (S) (Y) | 50      |
| S140N*2    | 14       | Bulb                 | With Terminal            | 24V DC    | (B) (K) (M) (S) (Y) | 50      |
| S145N*     | 14       | Bulb                 | Hooked                   | 230V AC   | (B) (K) (M) (S) (Y) | 50      |
| S220N*     | 22       | Bulb                 | Conic Glass              | 230V      | (B) (K) (M) (S) (Y) | 20      |
| S220N*6    | 22       | With Lampholder      | Conic Glass              |           | (B) (K) (M) (S) (Y) | 20      |
| S222N*     | 22       | Bulb                 | Finger Proof             | 230V AC   | (B) (K) (M) (S) (Y) | 20      |
| S222L*     | 22       | LED                  | Finger Proof             | 230V AC   | (B) (K) (M) (S) (Y) | 20      |
| S222L1*    | 22       | LED                  | Finger Proof             | 12V AC/DC | (B) (K) (M) (S) (Y) | 20      |
| S222L2*    | 22       | LED                  | Finger Proof             | 24V AC/DC | (B) (K) (M) (S) (Y) | 20      |
| S224N*     | 22       | Bulb                 | Terminal + Screw         | 230V AC   | (B) (K) (M) (S) (Y) | 20      |
| S224N*7    | 22       | With Ba9S Lampholder | Terminal + Screw         |           | (B) (K) (M) (S) (Y) | 20      |

\*Please choose the colour and replace (\*) with the letter.  
Note: S1450 ve S2200 Signal Lamps are transparent.

## Accessories



PDA



NA201Y

| Code   | Illumination                 | Features             | Voltage   | Colour | Box/Pcs |
|--------|------------------------------|----------------------|-----------|--------|---------|
| PDA    | Bulb with Plastic Lampholder |                      | 220V AC   | (B)    | 100     |
| NA201Y | Neon Bulb                    | With Ba9S Lampholder | 220V AC   | (Y)    | 100     |
| NA201  | Neon Bulb                    | With Ba9S Lampholder | 220V AC   | (S)    | 100     |
| NA101  | Neon Bulb                    | With E10 Lampholder  | 220V AC   | (S)    | 100     |
| NA202  | Filament Bulb                | With Ba9S Lampholder | 24V AC/DC | (S)    | 100     |



P1EC400E40K



M1C200E40



P1C400E72

# Control Boxes



P1C300M72H



P1C400DK



P1C400E72



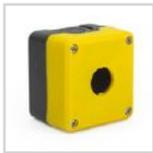
P1C300DY



P3EC1A2BE30



P1EC400E40K



P1EBOS



P2AB



M1C200E40



PY1BOS



PK1SE



PK2



PK3



PK31S

## P Series (IP65 With Suitable Buttons, Plastic Enclosed)

| Code               | Button Qty | Features   | Box Colour          | Box/Pcs  |
|--------------------|------------|--|---------------------|----------|
| P1C300M72H         | 1          | 72 mm Mushroom Button (Black Button) (Start) (1NO)     | Black-Grey          | 1        |
| P1C400M72          | 1          | 72mm. Mushroom (Red Button)(Stop) (1NC)                | Black-Grey          | 1        |
| P1C300M72          | 1          | 72mm Mushroom (Red Button) (Start) (1NO)               | Black-Grey          | 1        |
| <b>P1C400E72</b>   | <b>1</b>   | <b>72mm. Emergency Stop(Red Stay Put Button) (1NC)</b> | <b>Black-Grey</b>   | <b>1</b> |
| P1C300DY           | 1          | Green (1NO)  | Black-Grey          | 1        |
| P1C400DK           | 1          | Red (1NC)  | Black-Grey          | 1        |
| P1C304DK           | 1          | Red (Start-Stop) (1NO+1NC)                             | Black-Grey          | 1        |
| P1C304MK           | 1          | Mushroom-Red (Start-Stop) (1NO+1NC)                    | Yellow-Black        | 1        |
| <b>P1EC400E40</b>  | <b>1</b>   | <b>Emergency Stop (1NC)</b>                            | <b>Yellow-Black</b> | <b>1</b> |
| <b>P1EC400E40K</b> | <b>1</b>   | <b>Emergency Stop (1NC),With Plate</b>                 | <b>Yellow-Black</b> | <b>1</b> |
| <b>P1EC400E40L</b> | <b>1</b>   | <b>Emergency Stop (1NC), With Label LED</b>            | <b>Black-Grey</b>   | <b>1</b> |
| P2AB               | 2          | Green-Red (Start-Stop)                                 | Black-Grey          | 1        |
| P2ABE30            | 2          | Cylindrical Head (Start-Emergency Stop)                | Black-Grey          | 1        |
| P2CC               | 2          | Green-Red (Start-Stop/Start-Stop)                      | Black-Grey          | 1        |
| P2CCM              | 2          | Green-Mushroom-Red (Start-Stop/Start-Stop)             | Black-Grey          | 1        |
| P3EC1A2BE30        | 3          | Green-Red (Start-Stop-Emergency Stop)                  | Yellow-Grey         | 1        |
| P43A1B             | 4          | 3 Start / 1 Stop                                       | Black-Grey          | 1        |
| P43A1BE30          | 4          | 3 Start / 1 Emergency Stop (Cyl.Head)                  | Black-Grey          | 1        |
| P44C               | 4          | 4 Start-Stop   | Black-Grey          | 1        |
| P1BOS              | 1          | Empty Box / W:68mm L:72mm H:52mm                       | Black-Grey          | 1        |
| P1EBOS             | 1          | Empty Box / W:68mm L:72mm H:52mm                       | Yellow-Black        | 1        |
| P2BOS              | 2          | Empty Box / W:68mm L:102mm H:52mm                      | Black-Grey          | 1        |
| P3BOS              | 3          | Empty Box / W:68mm L:132mm H:52mm                      | Black-Grey          | 1        |
| P4BOS              | 4          | Empty Box / W:68mm L:162mm H:52mm                      | Black-Grey          | 1        |
| P6BOS              | 6          | Empty Box / W:68mm L:230mm H:52mm                      | Black-Grey          | 1        |

NOTE:Contact blocks are mounted onto the base of the control box.

## M Series (IP65 with Suitable Buttons,Metal Enclosed)

| Code             | Button Qty | Features                            | Box Colour         | Box/Pcs  |
|------------------|------------|-------------------------------------|--------------------|----------|
| <b>M1C200E40</b> | <b>1</b>   | <b>Emergency Stop</b>               | <b>Yellow-Grey</b> | <b>1</b> |
| <b>M1C200EE</b>  | <b>1</b>   | <b>Emergency Stop With Label</b>    | <b>Yellow-Grey</b> | <b>1</b> |
| M1CBOS           | 1          | Empty Box / W:68mm L:72mm H:57/85mm | Yellow-Grey        | 1        |

## PY Series (IP65 with available Push Buttons)

| Code    | Button Qty | Features                          | Box Colour | Box/Pcs |
|---------|------------|-----------------------------------|------------|---------|
| PY1BOS  | 1          | Empty Box / W:68mm L:72mm H:60mm  | Black-Grey | 1       |
| PY2BOS  | 2          | Empty Box / W:68mm L:107mm H:60mm | Black-Grey | 1       |
| PY3BOS  | 3          | Empty Box / W:68mm L:142mm H:60mm | Black-Grey | 1       |
| PY4BOS  | 4          | Empty Box / W:68mm L:177mm H:60mm | Black-Grey | 1       |
| PY6BOS  | 6          | Empty Box / W:68mm L:247mm H:60mm | Black-Grey | 1       |
| PY2AB   | 2          | Start - Stop                      | Black-Grey | 1       |
| PY43A1B | 4          | 3 Start - Stop                    | Black-Grey | 1       |

Note: Use Selection Table for your P,PY and M Boxes Special orders. Your special orders will be delivered as individual components if the quantity is less than 50 pcs.

## PK Series (IP65 with available Push Buttons)

| Code         | Button Qty | Features                           | Box Colour          | Box/Pcs  |
|--------------|------------|------------------------------------|---------------------|----------|
| PK1*         | 1          |                                    | Black-Grey          | 1        |
| PK1M*        | 1          | With Mushroom Button               | Black-Grey          | 1        |
| <b>PK1SE</b> | <b>1</b>   | <b>With Emergency Stop Button</b>  | <b>Yellow-Black</b> | <b>1</b> |
| PK2          | 2          |                                    | Black-Grey          | 1        |
| PK3          | 3          |                                    | Black-Grey          | 1        |
| PK31S        | 3          | With 1 Signal (S220*6)             | Black-Grey          | 1        |
| PK4          | 4          |                                    | Black-Grey          | 1        |
| PK5          | 5          |                                    | Black-Grey          | 6        |
| PK6          | 6          |                                    | Black-Grey          | 6        |
| PK1BOS       | 1          | Empty Box / W:70mm L:80mm H:60mm   | Black-Grey          | 24       |
| PK2BOS       | 2          | Empty Box / W: 70mm L:115mm H:60mm | Black-Grey          | 18       |
| PK3BOS       | 3          | Empty Box / W:70mm L:183mm H:60mm  | Black-Grey          | 12       |
| PK4BOS       | 4          | Empty Box / W: 70mm L:183mm H:60mm | Black-Grey          | 12       |
| PK5BOS       | 5          | Empty Box / W:70mm L:260mm H:60mm  | Black-Grey          | 6        |
| PK6BOS       | 6          | Empty Box / W:70mm L:260mm H:60mm  | Black-Grey          | 6        |

Note: On PK Series control boxes, only KB Series buttons can be mounted.

## Control Boxes Selection Table

| Series     | 1. Hole    | 2. Hole    | 3. Hole    | 4. Hole  | 5. Hole  | 6. Hole  | Label    |
|------------|------------|------------|------------|----------|----------|----------|----------|
| <b>PY3</b> | <b>56B</b> | <b>07C</b> | <b>50H</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>A</b> |

Series

- P1C** Single Hole Plastic Control Box Black-Grey
- P1EC** Single Hole Plastic Control Box Yellow-Black
- PY1** Single Hole Plastic High Control Box Black-Grey
- M1C** Single Hole Aluminium High Control Box Yellow-Grey
- P2** Two Holes Plastic Control Box Black-Grey
- PY2** Two Holes Plastic High Control Box Black-Grey
- P3** Three Holes Plastic Control Box Black-Grey
- P3EC** Three Holes Plastic Control Box Yellow-Black
- PY3** Three Holes Plastic High Control Box Black-Grey
- P4** Four Holes Plastic Control Box Black-Grey
- PY4** Four Holes Plastic High Control Box Black-Grey
- P6** Six Holes Plastic Control Box Black-Grey
- PY6** Six Holes Plastic High Control Box Black-Grey

YOU CAN CREATE YOUR SPECIAL BOX ORDER CODE FROM P BOX CODE COMBINATION TABLE NEXT PAGE

Label

- Without Label**
- A** BET08
- B** BET18
- C** BET08-Start
- D** BET08-Stop
- E** BET08-01
- F** BET08-01 OK
- G** BET08-201
- H** BET08-201 OK
- I** BET08-201 OK 2
- K** BET60P For closed boxes with single hole
- L** BET60A
- M** Special Label

**Example:** PY3-56B07C502H-A Code means :Box type is PY3 series, 1st Hole is push button where is 56. line and B column in the next page, 2nd Hole is push button where is 7. line and C column in the next page, 3rd Hole push button where is 50. line and H column in the next page, Label A means BET08.

*Note: Use Selection Table for your P, PY and M Boxes Special orders. Your special orders will be delivered as individual components if the quantity is less than 50 pcs.*

## P Type Box Code Combination Table

|    | B BUTTON SERIES |           |         |              | C BUTTON SERIES |          |            |           | MB BUTTON SERIES |          |         |          | M              |
|----|-----------------|-----------|---------|--------------|-----------------|----------|------------|-----------|------------------|----------|---------|----------|----------------|
|    | A               | B         | C       | D            | E               | F        | G          | H         | I                | J        | K       | L        |                |
| 01 | B100DB          | B100S20   | B100E   | B030XB       | CM100DB         | CM100S20 | CM100E     | CM050XB   | MB100DB          | MB100S20 | MB100E  | MBS0204B | 6PRPREU1MAVI   |
| 02 | B100DB1         | B100S21   | B100E30 | B030XK       | CM100DB00       | CM100S21 | CM200E     | CM060XK   | MB100DB0D        | MB100S21 | MB102E  | MBS0204K | 6PRPREU1MAVIY  |
| 03 | B100DB2         | B100S30   | B100MH  | B030XM       | CM100DB0Y       | CM101S30 | CM200EG    | CM070XM   | MB100DH          | MB101S30 | MB102MK | MBS0204M | 6PRPREU1HSIYAH |
| 04 | B100DBL         | B100SL20B | B100MK  | B030XS       | CM100DH         | CM101S31 | CM200MK    | CM080XS   | MB100DK          | MB101S31 | MB200E  | MBS0204S | 6PRPRUS1HSIYAH |
| 05 | B100DBOD        | B100SL20H | B100MS  | B030XY       | CM100DH00       | CM101S32 | CM200MY    | CM090XY   | MB100DM          | MB101S32 | MB200MK | MBS0204Y |                |
| 06 | B100DBOY        | B100SL20K | B100MSZ | B050XB       | CM100DK         | CM102S30 | CP100E     | CM080XB   | MB100DS          | MB102S20 | MB200EE | MBS0220B |                |
| 07 | B100DBZ         | B100SL20M | B100MY  | B050XY       | CM100DM         | CM303S30 | CP100M72H  | CM0K0XK   | MB100DY          |          |         | MBS0220K |                |
| 08 | B100DH          | B100SL20S | B102E   | B060XK       | CM100DS         | CP100S20 | CP100MK    | CM0M0XM   | MB100FY          |          |         | MBS0220M |                |
| 09 | B100DHOD        | B100SL20Y | B102E30 | B070XM       | CM100DY         | CP100S21 | CP100MY    | CM0S0XS   | MB100MY          |          |         | MBS0220S |                |
| 10 | B100DHOY        | B100SL21B | B102E60 | B080XS       | CM101DH         | CP100S30 | CP101ES30  | CM0Y0XY   | MB101DH          |          |         | MBS0220Y |                |
| 11 | B100DK          | B100SL21K | B102MH  | B090XY       | CM101DK         | CP100S31 | CP200E     | CM0M0J20  | MB101DK          |          |         | MBS0204B |                |
| 12 | B100DM          | B100SL21Y | B102MK  | B080XB       | CM101DM         | CP100S32 | CP200E30   | CM101DJ21 | MB101DM          |          |         | MBS0204K |                |
| 13 | B100DS          | B100SL30K | B102MY  | B0K0XK       | CM101DS         | CP101S20 | CP200E30   | CP050XB   | MB101DY          |          |         | MBS0204M |                |
| 14 | B100DSZ         | B101S20   | B200E   | B0M0XM       | CM101DY         | CP101S21 | CP200ECN   | CP060XK   | MB102DB          |          |         | MBS0204S |                |
| 15 | B100DY          | B101S21   | B200E30 | B0S0XS       | CM101K20YYOK    | CP101S30 | CP200ECN30 | CP070XM   | MB102DBOD        |          |         | MBS0204Y |                |
| 16 | B100DY1         | B101S30   | B200E60 | B0Y0XY       | CM102DB         | CP101S31 | CP200EC30  | CP080XS   | MB102DH          |          |         | MBS0220B |                |
| 17 | B100DY2         | B101S31   | B200EE  | B100AA20     | CM102DK         | CP101S32 | CP200EP    | CP090XY   | MB102DK          |          |         | MBS0220K |                |
| 18 | B100DYOD        | B101S32   | B200MH  | B100AA21     | CM102DM         | CP102S30 | CP200E30   | CP0B0XB   | MB102DM          |          |         | MBS0220M |                |
| 19 | B100DYDY        | B101SL20B | B200MK  | B100AC20     | CM102DS         | CP303S30 | CP200MK    | CP0K0XK   | MB102DS          |          |         | MBS0220S |                |
| 20 | B100HB          | B101SL20H | B200MS  | B100AC30     | CM102DY         | CP304S20 | CP200MY    | CP0M0XM   | MB102DY          |          |         | MBS0220Y |                |
| 21 | B100HH          | B101SL20K | B200MY  | B100C        | CM102K20HB      | CP305S30 | CP200E     | CP0S0XS   | MB200DB          |          |         | MBZ0204S |                |
| 22 | B100HK          | B101SL20M | B202EE  | B100FB       | CM102K20HB10    | CP100HB  | CP220E     | CP0Y0XY   | MB200DH          |          |         | MBZ0220S |                |
| 23 | B100HM          | B101SL20S |         | B100FH       | CM102K20HH      | CP100HH  | CP200EE    | CP101DJ20 | MB200DK          |          |         | MBZ0204S |                |
| 24 | B100HS          | B101SL20Y |         | B100FK       | CM102K20KY      | CP100HK  |            | CP101DJ21 | MB200DM          |          |         | MBZ220S  |                |
| 25 | B100HY          | B101SL30B |         | B100FM       | CM102K21HB      | CP100HM  |            | CM101A31  | MB200DS          |          |         |          |                |
| 26 | B101DBOD        | B101SL30K |         | B100FS       | CM102K21KY      | CP100HS  |            | CM100A20  | MB200DY          |          |         |          |                |
| 27 | B101DH          | B101SL30M |         | B100FY       | CM200DHO        | CP100HY  |            | CM100A21  | MB200FK          |          |         |          |                |
| 28 | B101DM          | B101SL30S |         | B101AA30     | CM200DK         | CP101HY  |            | CM100A30  | MB202DK          |          |         |          |                |
| 29 | B101DY          | B101SL30Y |         | B101AA32     | CM200DY         | CP102HB  |            | CM101A20  |                  |          |         |          |                |
| 30 | B101DYOD        | B101SL31K |         | B101AC30     | CM202DK         | CP102ZH  |            | CM101A21  |                  |          |         |          |                |
| 31 | B101HY          | B101SL31Y |         | B101K20BB12  | CM305DY         | CP102HK  |            | CM101A30  |                  |          |         |          |                |
| 32 | B102DB          | B101SL32B |         | B101K20HB    | CP100DB         | CP102HM  |            | CP200AC20 |                  |          |         |          |                |
| 33 | B102DBOD        | B101SL32K |         | B101K20HH    | CP100BOD        | CP102HS  |            | CP102AA20 |                  |          |         |          |                |
| 34 | B102DH          | B101SL32S |         | B101K20HHOK  | CP100BOY        | CP102HY  |            | CP102AA30 |                  |          |         |          |                |
| 35 | B102DK          | B101SL32Y |         | B101K20SS12  | CP100DH         | CP200HK  |            | CP102AC30 |                  |          |         |          |                |
| 36 | B102DM          | B101T20   |         | B101K20Y12   | CP100HOD        | CP200HY  |            | CP101AA20 |                  |          |         |          |                |
| 37 | B102DS          | B101T201  |         | B101K20YYOK  | CP100DHOY       | CP202HK  |            | CP101AA30 |                  |          |         |          |                |
| 38 | B102DY          | B102S20   |         | B102AA20     | CP100DK         | CP230HK  |            | CP101AC20 |                  |          |         |          |                |
| 39 | B102HB          | B102S30   |         | B102AA30     | CP100DM         |          |            | CP101AC30 |                  |          |         |          |                |
| 40 | B102HH          | B102S32   |         | B102AC20     | CP100DS         |          |            | CP100AA20 |                  |          |         |          |                |
| 41 | B102HK          | B102SL20K |         | B102AC30     | CP100DY         |          |            | CP100AC20 |                  |          |         |          |                |
| 42 | B102HM          | B102SL20Y |         | B102C        | CP101DK         |          |            | CP100AC30 |                  |          |         |          |                |
| 43 | B102HS          | B102SL32Y |         | B102K20HB    | CP101DY         |          |            | CM102A20  |                  |          |         |          |                |
| 44 | B102HY          | B102T20   |         | B102K20KY    | CP101K20HB      |          |            | CM102A21  |                  |          |         |          |                |
| 45 | B130DB          | B111S20   |         | B102K20KY10  | CP102DB         |          |            | CM102A30  |                  |          |         |          |                |
| 46 | B130DH          | B121R30   |         | B102K20SH    | CP102DH         |          |            | CM102A31  |                  |          |         |          |                |
| 47 | B130DK          | B121R301  |         | B102K20SH10  | CP102DK         |          |            | CM100HB   |                  |          |         |          |                |
| 48 | B130DM          | B130SL20B |         | B102K20SYH10 | CP102DM         |          |            | CM100HH   |                  |          |         |          |                |
| 49 | B130DS          | B130SL20K |         | B102K21HB    | CP102DS         |          |            | CM100HK   |                  |          |         |          |                |
| 50 | B130DY          | B130SL20M |         | B102K21KY    | CP102DY         |          |            | CM100HM   |                  |          |         |          |                |
| 51 | B130HY          | B130SL20S |         | B132K20HB    | CP102K20HB      |          |            | CM100HS   |                  |          |         |          |                |
| 52 | B131DY          | B130SL20Y |         | B132K20KY    | CP102K20HS      |          |            | CM100HY   |                  |          |         |          |                |
| 53 | B132DK          | B130SL21B |         | B132K21HB    | CP102K20KY      |          |            | CM101HY   |                  |          |         |          |                |
| 54 | B132DS          | B130SL21K |         | B132K21KY    | CP102K21HB      |          |            | CM102HB   |                  |          |         |          |                |
| 55 | B132DY          | B130SL21Y |         | B151K20HHOK  | CP102K21KY      |          |            | CM102HH   |                  |          |         |          |                |
| 56 | B170DM          | B131SL20K |         | B191K20HBS   | CP200DB         |          |            | CM102HK   |                  |          |         |          |                |
| 57 | B180DS          | B131SL20S |         | B192K21HB    | CP200DK         |          |            | CM102HM   |                  |          |         |          |                |
| 58 | B190DY          | B131SL20Y |         | B200C        | CP200DM         |          |            | CM102HS   |                  |          |         |          |                |
| 59 | B200DH          | B131SL30B |         | B102K20HSLZ  | CP200DS         |          |            | CM102HY   |                  |          |         |          |                |
| 60 | B200DHO         | B131SL30K |         |              | CP200DY         |          |            | CM200HK   |                  |          |         |          |                |
| 61 | B200DK          | B131SL30M |         |              | CP202DK         |          |            | CM200HY   |                  |          |         |          |                |
| 62 | B200DKO         | B131SL30S |         |              | CP303DY         |          |            | CM202HK   |                  |          |         |          |                |
| 63 | B200DM          | B131SL30Y |         |              | CP305DY         |          |            | CM230HK   |                  |          |         |          |                |
| 64 | B200DSL         | B131SL31B |         |              | CP101K20YYOK    |          |            |           |                  |          |         |          |                |
| 65 | B200DSZ         | B131SL31K |         |              |                 |          |            |           |                  |          |         |          |                |
| 66 | B200DY          | B131SL31Y |         |              |                 |          |            |           |                  |          |         |          |                |
| 67 | B200FK          | B131SL32B |         |              |                 |          |            |           |                  |          |         |          |                |
| 68 | B200HK          | B131SL32K |         |              |                 |          |            |           |                  |          |         |          |                |
| 69 | B200HY          | B131SL32Y |         |              |                 |          |            |           |                  |          |         |          |                |
| 70 | B202DK          | B132SL30B |         |              |                 |          |            |           |                  |          |         |          |                |
| 71 | B202HK          | B132SL30K |         |              |                 |          |            |           |                  |          |         |          |                |
| 72 | B230DK          | B132SL30M |         |              |                 |          |            |           |                  |          |         |          |                |
| 73 | B230DY          | B132SL30S |         |              |                 |          |            |           |                  |          |         |          |                |
| 74 | B230HK          | B132SL30Y |         |              |                 |          |            |           |                  |          |         |          |                |
| 75 | B232DK          | B132SL32K |         |              |                 |          |            |           |                  |          |         |          |                |
| 76 | B232DY          | B132SL32Y |         |              |                 |          |            |           |                  |          |         |          |                |
| 77 | B100DHL         | B160SL20K |         |              |                 |          |            |           |                  |          |         |          |                |
| 78 |                 | B161SL30K |         |              |                 |          |            |           |                  |          |         |          |                |
| 79 |                 | B180SL20S |         |              |                 |          |            |           |                  |          |         |          |                |
| 80 |                 | B190SL20Y |         |              |                 |          |            |           |                  |          |         |          |                |
| 81 |                 | B191SL30Y |         |              |                 |          |            |           |                  |          |         |          |                |
| 82 |                 | B191SL32Y |         |              |                 |          |            |           |                  |          |         |          |                |
| 83 |                 | B1K1SL30K |         |              |                 |          |            |           |                  |          |         |          |                |
| 84 |                 | B1S1SL30S |         |              |                 |          |            |           |                  |          |         |          |                |
| 85 |                 | B1Y1SL30Y |         |              |                 |          |            |           |                  |          |         |          |                |
| 86 |                 | B1Y1SL32Y |         |              |                 |          |            |           |                  |          |         |          |                |



PDNS11BX10



PDKS11GX23G



PDKA22BG33O

# Foot Switches



PDP1



PDM11



PDA2



PPKS11BX10



PDKS11BX10



PDKS11VX20



PDNS11BX10



PDKS11BX10T



PDKS11GX23G



PDKA22GG10G



PDKA22GG10



PDKA22BG330

## Plastic Series

| Code  | Type              | Contact Block | Colour | Box/Pcs |
|-------|-------------------|---------------|--------|---------|
| PDM1  | Mini              | 1 CO          | ●      | 10      |
| PDM11 | Mini, Cable (1m.) | 1 CO          | ●      | 1       |
| PDP1  | Midi              | 1 NO          | ●      | 1       |
| PDP2  | Midi              | 2 NO          | ●      | 1       |

## Aluminium Series

| Code | Type | Contact Block | Colour | Box/Pcs |
|------|------|---------------|--------|---------|
| PDA1 | Midi | 1 NO          | ●      | 1       |
| PDA2 | Midi | 2 NO          | ●      | 1       |

## Foot Protection Series

### Single Foot Switch

| Code        | Material  | Metal Bar Mountable | Contact Block                   | Speed                 | With Protection | Box/Pcs |
|-------------|-----------|---------------------|---------------------------------|-----------------------|-----------------|---------|
| PDNS11BX10  | Plastic   |                     | 1 NO + 1 NC                     |                       |                 | 1       |
| PPKS11BX10  | Plastic   |                     | 1 NO + 1 NC                     |                       | ✓               | 1       |
| PDKS11BX10* | Aluminium |                     | 1 NO + 1 NC                     |                       | ✓               | 1       |
| PDKS11BX11* | Aluminium |                     | 1 NO + 1 NC                     | Stay Put              | ✓               | 1       |
| PDKS11GX10* | Aluminium |                     | 2x(1 NO + 1 NC)                 |                       | ✓               | 1       |
| PDKS11GX12* | Aluminium |                     | 2x(1 NO + 1 NC)                 | With Reset            | ✓               | 1       |
| PDKS11GX20* | Aluminium |                     | 2x(1 NO + 1 NC)                 | Double                | ✓               | 1       |
| PDKS11UX20* | Aluminium |                     | (1 NO + 1 NC) + 2x(1 NO + 1 NC) | Double                | ✓               | 1       |
| PDKS11VX20* | Aluminium |                     | 2x(1NO + 1NC) + 2x(1 NO + 1NC)  | Double                | ✓               | 1       |
| PDKA11BX10* | Aluminium | ✓                   | 1 NO + 1 NC                     |                       | ✓               | 1       |
| PDKA11GX10* | Aluminium | ✓                   | 2x(1 NO + 1 NC)                 |                       | ✓               | 1       |
| PDKA11GX20* | Aluminium | ✓                   | 2x(1 NO + 1 NC)                 | Double                | ✓               | 1       |
| PDKS11GX23  | Aluminium |                     | (1 NO + 1 NC) + 2 NC            | With Reset and Double | ✓               | 1       |

### Potentiometer

| Code       | Material  | Metal Bar Mountable | Contact Block | Features | With Protection | Box/Pcs |
|------------|-----------|---------------------|---------------|----------|-----------------|---------|
| PDKS11PX10 | Aluminium |                     | 1 CO          | 10 k Ω   | ✓               | 1       |

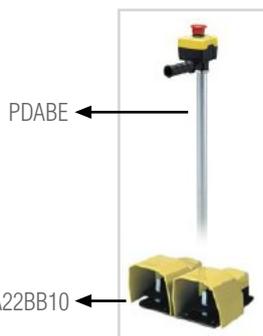
\* Please replace (\*) with the letter T for orange, G for grey. Note: BX11 is Stay-Put Type.

### Double Foot Switch

| Code        | Material  | Metal Bar Mountable | Contact Block                 | Speed                          | With Protection | Box/Pcs |
|-------------|-----------|---------------------|-------------------------------|--------------------------------|-----------------|---------|
| PDKA22BB10  | Aluminium | ✓                   | (1NO+1NC) + (1NO+1NC)         |                                | ✓               | 1       |
| PDKA22BG10  | Aluminium | ✓                   | (1NO+1NC) + 2x (1 NO+1NC)     |                                | ✓               | 1       |
| PDKA22BG20  | Aluminium | ✓                   | (1NO+1NC) + 2x (1NO+1NC)      | Double                         | ✓               | 1       |
| PDKA22BG330 | Aluminium | ✓                   | (1NO+1NC) + ((1NO+1NC) + 2NC) | Normal + With Reset and Double | ✓               | 1       |
| PDKA22GG10  | Aluminium | ✓                   | 2x (1NO+1NC) + 2x (1NO+1NC)   |                                | ✓               | 1       |
| PDKA22GG20  | Aluminium | ✓                   | 2x (1NO+1NC) + 2x (1NO+1NC)   | Double                         | ✓               | 1       |
| PDKA22GG10G | Aluminium | ✓                   | 2x (1NO+1NC) + 2x (1NO+1NC)   |                                | ✓               | 1       |

### Accessories

| Code  | Type      | With Emergency | Box/Pcs |
|-------|-----------|----------------|---------|
| PDABE | Metal Bar | ✓              | 1       |
| PDABT | Metal Bar |                | 1       |





L53K13MIP21

L5K13MEL123A



L51K13MEP123



L52K23HUM112



L54K16MUM331



L61K13PUM211

# Limit Switches



L1K13MEM121



L1K13MIM111



L1K13MEL121



L1K13PUM211



L1K13MIM311



L1K13MIP111



L1K13MUM331



L1K13ROP101



L2K13MIM311



L2K13MEP123



L2K13SOP102



L2K13SOM101



L2K13MEL121



L2K13MEM121



L2K23PUM211



L2K13MIM211

## L1 Series, Aluminium Body, Snap Action, IP 65 (except MIP11, MIM11)

| Code         | Actuator                      | Actuator Type | Actuator End Unit Material |
|--------------|-------------------------------|---------------|----------------------------|
| L1K13MIP111* | Angular Action Roller One Way | Metal         | Plastic                    |
| L1K13MIM111* | Angular Action Roller One Way | Metal         | Metal                      |
| L1K13MIP211* | Angular Action Roller One Way | Aluminium     | Plastic                    |
| L1K13MIM211* | Angular Action Roller One Way | Aluminium     | Metal                      |
| L1K13MIP311* | Angular Action Roller One Way | Plastic       | Plastic                    |
| L1K13MIM311* | Angular Action Roller One Way | Plastic       | Metal                      |
| L1K13MEP121* | Angular Action Roller Two Way | Plastic       | Plastic                    |
| L1K13MEM121* | Angular Action Roller Two Way | Plastic       | Metal                      |
| L1K13MEL121* | Angular Action Roller Two Way | Plastic       | Rubber                     |
| L1K13PUM211* | Plunger                       | Plastic       | Metal                      |
| L1K13MUM331* | Linear Roller                 | Plastic       | Metal                      |
| L1K13SOM101  | Spiral Lever                  | Plastic       | Metal                      |
| L1K13SOM102  | Spiral Arm                    | Plastic       | Metal                      |
| L1K13ROP101* | Rigid Rod                     | Plastic       | Plastic                    |
| L1K13SOP101  | Spiral Arm                    | Plastic       | Plastic-Metal              |
| L1K13SOP102  | Spiral Arm                    | Plastic       | Plastic-Metal              |
| L1K13SOP103  | Spiral Arm                    | Plastic       | Plastic-Metal              |

## L2 Series, Aluminium Body, Plastic Cover, Snap Action, IP 65

| Code         | Actuator                                  | Actuator Type | Actuator End Unit Material |
|--------------|---|---------------|----------------------------|
| L2K13MIP211* | Angular Action Roller One Way             | Metal         | Plastic                    |
| L2K13MIM211* | Angular Action Roller One Way             | Metal         | Metal                      |
| L2K13MIP311* | Angular Action Roller One Way             | Plastic       | Plastic                    |
| L2K13MIM311* | Angular Action Roller One Way             | Plastic       | Metal                      |
| L2K13MEP121* | Angular Action Roller Two Way             | Plastic       | Plastic                    |
| L2K13MEP122  | Angular Action Roller Two Way, Adjustable | Plastic       | Plastic                    |
| L2K13MEP123* | Angular Action Roller Two Way, Adjustable | Plastic       | Plastic                    |
| L2K13MEP124* | Angular Action Roller Two Way, Adjustable | Plastic       | Plastic                    |
| L2K13MEL121* | Angular Action Roller Two Way, Adjustable | Plastic       | Rubber                     |
| L2K13MEM121* | Angular Action Roller Two Way             | Plastic       | Metal                      |
| L2K13MEM122  | Angular Action Roller Two Way, Adjustable | Plastic       | Metal                      |
| L2K13MEM123* | Angular Action Roller Two Way, Adjustable | Plastic       | Metal                      |
| L2K13MEM124* | Angular Action Roller Two Way             | Plastic       | Metal                      |
| L2K13PUM211* | Plunger                                   | Plastic       | Metal                      |
| L2K13MUM331* | Linear Roller                             | Plastic       | Metal                      |
| L2K13SOM101  | Spiral Lever                              | Plastic       | Metal                      |
| L2K13SOM102  | Spiral Arm                                | Plastic       | Metal                      |
| L2K13ROP101* | Rigid Rod                                 | Plastic       | Plastic                    |
| L2K13SOP101  | Spiral Arm                                | Plastic       | Plastic-Metal              |
| L2K13SOP102  | Spiral Arm                                | Plastic       | Plastic-Metal              |
| L2K13SOP103  | Spiral Arm                                | Plastic       | Plastic-Metal              |



L3K13MIM411



L3K13MEP124



L3K13MUM331



L3K13REF121



L3K13MIP311



L3K13MEM121



L3K13MEL122



L3K13MEM124



L3K13PUM211



L3K13ROP101

## L3 Series, Plastic Body, Snap Action, IP 65

| Code         | Actuator                                  | Actuator Type | Actuator End Unit Material |
|--------------|---|---------------|----------------------------|
| L3K13MIP311* | Angular Action Roller One Way             | Plastic       | Plastic                    |
| L3K13MIP411* | Angular Action Roller One Way             | Plastic       | Plastic                    |
| L3K13MIM311* | Angular Action Roller One Way             | Plastic       | Metal                      |
| L3K13MIM411* | Angular Action Roller One Way             | Plastic       | Metal                      |
| L3K13MEP121* | Angular Action Roller Two Way             | Plastic       | Plastic                    |
| L3K13MEP122  | Angular Action Roller Two Way, Adjustable | Plastic       | Plastic                    |
| L3K13MEP123* | Angular Action Roller Two Way, Adjustable | Plastic       | Plastic                    |
| L3K13MEP124* | Angular Action Roller Two Way, Adjustable | Plastic       | Plastic                    |
| L3K13MEM121* | Angular Action Roller Two Way, Adjustable | Plastic       | Metal                      |
| L3K13MEM122  | Angular Action Roller Two Way, Adjustable | Plastic       | Metal                      |
| L3K13MEM123* | Angular Action Roller Two Way, Adjustable | Plastic       | Metal                      |
| L3K13MEM124* | Angular Action Roller Two Way, Adjustable | Plastic       | Metal                      |
| L3K13MEL121* | Angular Action Roller Two Way, Adjustable | Plastic       | Rubber                     |
| L3K13MEL122  | Angular Action Roller Two Way, Adjustable | Plastic       | Rubber                     |
| L3K13PUM211* | Plunger                                   | Plastic       | Metal                      |
| L3K13MUM331* | Linear Roller                             | Plastic       | Metal                      |
| L3K13SOM101  | Spiral Lever                              | Plastic       | Metal                      |
| L3K13SOM102  | Spiral Arm                                | Plastic       | Metal                      |
| L3K13ROP101* | Rigid Rod                                 | Plastic       | Plastic                    |
| L3K13SOP101  | Spiral Arm                                | Plastic       | Plastic-Metal              |
| L3K13SOP102  | Spiral Arm                                | Plastic       | Plastic-Metal              |
| L3K13SOP103  | Spiral Arm                                | Plastic       | Plastic-Metal              |
| L3K13REM121* | Metal Arm                                 | Plastic       | Metal                      |
| L3K13REF121  | Fiber Arm                                 | Plastic       | Fiber                      |

\* Positive opening Function

Note : For contact block alternatives, please see contact blocks table on Page 36



L4K16MIM311



L4K16MEP121

## L4 Series, Aluminium Body, Double Contact Block, Snap Action, IP 65 (Except MIP111, MIM111)

| Code        | Actuator                      | Actuator Type | Actuator End Unit Material |
|-------------|-------------------------------|---------------|----------------------------|
| L4K16MIM111 | Angular Action Roller One Way | Metal         | Metal                      |
| L4K16MIP111 | Angular Action Roller One Way | Metal         | Plastic                    |
| L4K16MIP211 | Angular Action Roller One Way | Metal         | Plastic                    |
| L4K16MIM211 | Angular Action Roller One Way | Metal         | Metal                      |
| L4K16MIP311 | Angular Action Roller One Way | Plastic       | Plastic                    |
| L4K16MIM311 | Angular Action Roller One Way | Plastic       | Metal                      |
| L4K16MEP121 | Angular Action Roller Two Way | Plastic       | Plastic                    |
| L4K16MEM121 | Angular Action Roller Two Way | Plastic       | Metal                      |
| L4K16PUM211 | Plunger                       | Plastic       | Metal                      |
| L4K16MUM331 | Linear Roller                 | Plastic       | Metal                      |



L5K13MIP311



L5K13MIP411



L5K13MEP123



L5K13MEP124



L5K13MUM331



L5K13MUM332R



L5K13MIP211



L5K13MEL121



L5K13MEM121



L5K13MIP411R



L5K23LEM411



L5K23BEM621



L5K23CPDE



L5K23LUM323



L5K23LUM321



L5K23LUM322

## L5 Series, Plastic Body, Snap Action, IP 65

| Code          | Actuator                                  | Actuator Type | Actuator End Unit Material |
|---------------|---|---------------|----------------------------|
| L5K13MIP211*  | Angular Action Roller One Way (22mm)      | Plastic       | Plastic                    |
| L5K13MIP311*  | Angular Action Roller One Way             | Plastic       | Plastic                    |
| L5K13MIM311R  | Angular Action Roller One Way, Adjustable | Plastic       | Metal                      |
| L5K13MIP411*  | Angular Action Roller One Way             | Plastic       | Plastic                    |
| L5K13MIP411R* | Angular Action Roller One Way, with Reset | Plastic       | Plastic                    |
| L5K13MIM211*  | Angular Action Roller One Way (22mm)      | Plastic       | Metal                      |
| L5K13MIM311*  | Angular Action Roller One Way             | Plastic       | Metal                      |
| L5K13MIM411*  | Angular Action Roller One Way             | Plastic       | Metal                      |
| L5K13MIM411R  | Angular Action Roller One Way, Adjustable | Plastic       | Metal                      |
| L5K13MEP121*  | Angular Action Roller Two Way             | Plastic       | Plastic                    |
| L5K13MEP122*  | Angular Action Roller Two Way, Adjustable | Plastic       | Plastic                    |
| L5K13MEP123*  | Angular Action Roller Two Way, Adjustable | Plastic       | Plastic                    |
| L5K13MEP124*  | Angular Action Roller Two Way, Adjustable | Plastic       | Plastic                    |
| L5K13MEM121*  | Angular Action Roller Two Way             | Plastic       | Metal                      |
| L5K13MEM122*  | Angular Action Roller Two Way, Adjustable | Plastic       | Metal                      |
| L5K13MEM123*  | Angular Action Roller Two Way, Adjustable | Plastic       | Metal                      |
| L5K13MEL121*  | Angular Action Roller Two Way             | Plastic       | Rubber                     |
| L5K13MEL122*  | Angular Action Roller Two Way, Adjustable | Plastic       | Rubber                     |
| L5K13MEL123*  | Angular Action Roller Two Way, Adjustable | Plastic       | Rubber                     |
| L5K13MEL123A* | Angular Action Roller Two Way, Adjustable | Plastic       | Rubber                     |
| L5K13MEM124*  | Angular Action Roller Two Way, Adjustable | Plastic       | Metal                      |
| L5K13PUM211*  | Plunger                                   | Plastic       | Metal                      |
| L5K13PUM211R* | Plunger, with Reset                       | Plastic       | Metal                      |
| L5K13PUP211   | Plunger                                   | Plastic       | Plastic                    |
| L5K13MUM331*  | Linear Roller                             | Plastic       | Metal                      |
| L5K13MUM331R* | Linear Roller, with Reset                 | Plastic       | Metal                      |
| L5K13MUM332R* | Linear Roller, with Reset                 | Plastic       | Metal                      |
| L5K13SOM101   | Spiral Lever                              | Plastic       | Metal                      |
| L5K13SOM102   | Spiral Arm                                | Plastic       | Metal                      |
| L5K13SOM103   | Spiral Arm                                | Plastic       | Metal                      |
| L5K13SOP101   | Spiral Arm                                | Plastic       | Plastic-Metal              |
| L5K13SOP102   | Spiral Arm                                | Plastic       | Plastic-Metal              |
| L5K13SOP103   | Spiral Arm                                | Plastic       | Plastic-Metal              |
| L5K13ROP101*  | Rigid Rod                                 | Plastic       | Plastic                    |
| L5K13CPDE     | Emergency Stop                            | Plastic       | Plastic                    |
| L5K13REM121   | Fiber Arm                                 | Plastic       | Metal                      |
| L5K13REF121   | Fiber Arm                                 | Plastic       | Fiber                      |

## L5 Series, Plastic Body, Slow Action, IP 65

| Code          | Actuator                                  | Actuator Type | Actuator End Unit Material |
|---------------|---|---------------|----------------------------|
| L5K23MEL123A  | Angular Action Roller Two Way, Adjustable | Plastic       | Rubber                     |
| L5K23SOM103   | Spiral Arm                                | Plastic       | Metal                      |
| L5K23LEM411*  | Hinge                                     | Plastic       | Metal                      |
| L5K23LEM412*  | Hinge                                     | Plastic       | Metal                      |
| L5K23LEM511*  | Hinge                                     | Plastic       | Metal                      |
| L5K23LEM621*  | Hinge                                     | Plastic       | Metal                      |
| L5K23LEM622*  | Hinge                                     | Plastic       | Metal                      |
| L5K23BEM621*  | Rotational Tube                           | Plastic       | Metal                      |
| L5K23LUM321*  | Curved Key                                | Plastic       | Metal                      |
| L5K23LUM322*  | Straight Key                              | Plastic       | Metal                      |
| L5K23LUM323   | Movable Key                               | Plastic       | Metal                      |
| L5K23MUM332R* | Linear Roller, with Reset                 | Plastic       | Metal                      |
| L5K23CPDE     | Emergency Stop                            | Plastic       | Plastic                    |
| L5K23LUM324   | Movable Key                               | Plastic       | Metal                      |

\* Positive opening Function

Note : For contact block alternatives, please see contact blocks table on Page 36



L51K13MIM311



L51K13MIP211



L51K13MEM121



L51K13MIM411



L51K13SOM101



L51K13MEM122



L51K13MEL122



L51K13SOM102



L51K13MUM331



L51K13MEM124



L51K13REF121



L51K13ROP101



L51K23HUM112



L51K23LUM321



L51K23LUM322



L51K23LUM323

## L51 Series, Metal Body, Snap Action, IP 65

| Code           | Actuator                                  | Actuator Type | Actuator End Unit Material |
|----------------|---|---------------|----------------------------|
| L51K13MIP211   | Angular Action Roller One Way             | Metal         | Plastic                    |
| L51K13MIP311*  | Angular Action Roller One Way             | Metal         | Plastic                    |
| L51K13MIP411   | Angular Action Roller One Way             | Metal         | Plastic                    |
| L51K13MIM211   | Angular Action Roller One Way             | Metal         | Metal                      |
| L51K13MIM311*  | Angular Action Roller One Way             | Metal         | Metal                      |
| L51K13MIM411*  | Angular Action Roller One Way             | Metal         | Metal                      |
| L51K13MEP121*  | Angular Action Roller Two Way             | Metal         | Plastic                    |
| L51K13MEP122*  | Angular Action Roller Two Way, Adjustable | Metal         | Plastic                    |
| L51K13MEP123*  | Angular Action Roller Two Way, Adjustable | Metal         | Plastic                    |
| L51K13MEP124*  | Angular Action Roller Two Way, Adjustable | Metal         | Plastic                    |
| L51K13MEP125*  | Angular Action Roller Two Way             | Metal         | Plastic-Metal              |
| L51K13MEM121*  | Angular Action Roller Two Way             | Metal         | Metal                      |
| L51K13MEM122*  | Angular Action Roller Two Way, Adjustable | Metal         | Metal                      |
| L51K13MEM123*  | Angular Action Roller Two Way, Adjustable | Metal         | Metal                      |
| L51K13MEL121*  | Angular Action Roller Two Way             | Metal         | Rubber                     |
| L51K13MEL122*  | Angular Action Roller Two Way, Adjustable | Metal         | Rubber                     |
| L51K13MEL123*  | Angular Action Roller Two Way, Adjustable | Metal         | Rubber                     |
| L51K13MEL123A* | Angular Action Roller Two Way, Adjustable | Metal         | Rubber                     |
| L51K13MEM124*  | Angular Action Roller Two Way, Adjustable | Metal         | Plastic-Metal              |
| L51K13MEM125*  | Angular Action Roller Two Way             | Metal         | Metal                      |
| L51K13PUM211*  | Plunger                                   | Metal         | Plastic-Metal              |
| L51K13MUM331*  | Linear Roller                             | Metal         | Plastic-Metal              |
| L51K13MUM331F  | Linear Roller, Stay Put                   | Metal         | Plastic-Metal              |
| L51K13SOM101   | Spiral Lever                              | Metal         | Plastic-Metal              |
| L51K13SOM102   | Spiral Arm                                | Metal         | Plastic-Metal              |
| L51K13SOM103   | Spiral Arm                                | Metal         | Metal                      |
| L51K13SOP101   | Spiral Arm                                | Metal         | Plastic-Metal              |
| L51K13SOP102   | Spiral Arm                                | Metal         | Plastic-Metal              |
| L51K13SOP103   | Spiral Arm                                | Metal         | Plastic-Metal              |
| L51K13ROP101*  | Rigid Rod                                 | Metal         | Plastic                    |
| L51K13REF121   | Rigid Rod                                 | Metal         | Fiber                      |
| L51K13REM121*  | Rigid Rod                                 | Metal         | Metal                      |
| L51K13LEM411   | Hinge                                     | Metal         | Metal                      |
| L51K13LEM412   | Hinge                                     | Metal         | Metal                      |
| L51K13LEM511   | Hinge                                     | Metal         | Metal                      |
| L51K13LEM621   | Hinge                                     | Metal         | Metal                      |
| L51K13LEM622   | Hinge                                     | Metal         | Metal                      |

## L51 Series, Metal Body, Slow Action, IP 65

| Code          | Actuator               | Actuator Type | Actuator End Unit Material |
|---------------|------------------------|---------------|----------------------------|
| L51K23LUM321* | Curved Key             | Metal         | Metal                      |
| L51K23LUM322* | Straight Key           | Metal         | Metal                      |
| L51K23LUM323  | Movable Key            | Metal         | Metal                      |
| L51K23LUM324  | Movable Key            | Metal         | Metal                      |
| L51K23HUM111  | Metal Ring             | Metal         | Metal                      |
| L51K23HUM112  | Metal Ring, with Reset | Metal         | Metal                      |

Note: Maximum usable wire length is 12 metre for L51K23HUM111 and L51K23HUM112 limit switches



L52K13MIM311



L52K13MIM411



L52K13MEP123



L52K13MEP124



L52K13MUM331



L52K13PUM211



L52K13REF121



L52K13REM121



L52K13MEL122



L52K13MIP211



L52K13MEL123



L52K13MEP121

## L52 Series, Metal Body, Snap Action, IP 65

| Code           | Actuator                                   | Actuator Type | Actuator End Unit Material |
|----------------|--|---------------|----------------------------|
| L52K13MIP211   | Angular Action Roller One Way              | Metal         | Plastic                    |
| L52K13MIP311*  | Angular Action Roller One Way              | Metal         | Plastic                    |
| L52K13MIP411*  | Angular Action Roller One Way              | Metal         | Plastic                    |
| L52K13MIM211   | Angular Action Roller One Way              | Metal         | Metal                      |
| L52K13MIM311*  | Angular Action Roller One Way              | Metal         | Metal                      |
| L52K13MIM411*  | Angular Action Roller One Way              | Metal         | Metal                      |
| L52K13MEP121*  | Angular Action Roller Two Way              | Metal         | Plastic                    |
| L52K13MEP122*  | Angular Action Roller Two Way, Adjustable. | Metal         | Plastic                    |
| L52K13MEP123*  | Angular Action Roller Two Way, Adjustable. | Metal         | Plastic                    |
| L52K13MEP124*  | Angular Action Roller Two Way, Adjustable. | Metal         | Plastic                    |
| L52K13MEP125*  | Angular Action Roller Two Way              | Metal         | Plastic-Metal              |
| L52K13MEM121*  | Angular Action Roller Two Way              | Metal         | Metal                      |
| L52K13MEM122*  | Angular Action Roller Two Way, Adjustable. | Metal         | Metal                      |
| L52K13MEM123*  | Angular Action Roller Two Way, Adjustable. | Metal         | Metal                      |
| L52K13MEL121*  | Angular Action Roller Two Way, Adjustable. | Metal         | Rubber                     |
| L52K13MEL122*  | Angular Action Roller Two Way              | Metal         | Rubber                     |
| L52K13MEL123*  | Angular Action Roller Two Way, Adjustable. | Metal         | Rubber                     |
| L52K13MEL123A* | Angular Action Roller Two Way, Adjustable. | Metal         | Rubber                     |
| L52K13MEM124*  | Angular Action Roller Two Way, Adjustable. | Metal         | Metal                      |
| L52K13PUM211*  | Plunger                                    | Metal         | Metal                      |
| L52K13MUM331*  | Linear Roller                              | Metal         | Metal                      |
| L52K13MUP331   | Linear Roller                              | Metal         | Plastic                    |
| L52K13SOM101   | Spiral Lever                               | Metal         | Metal                      |
| L52K13SOM102   | Spiral Arm                                 | Metal         | Metal                      |
| L52K13SOM103   | Spiral Arm                                 | Metal         | Metal                      |
| L52K13SOP101   | Spiral Arm                                 | Metal         | Plastic-Metal              |
| L52K13SOP102   | Spiral Arm                                 | Metal         | Plastic-Metal              |
| L52K13SOP103   | Spiral Arm                                 | Metal         | Plastic-Metal              |
| L52K13ROP101*  | Rigid Rod                                  | Metal         | Plastic                    |
| L52K13REF121   | Rigid Rod                                  | Metal         | Fiber                      |
| L52K13REM121*  | Rigid Rod                                  | Metal         | Metal                      |
| L52K13LEM411   | Hinge                                      | Metal         | Metal                      |
| L52K13LEM412   | Hinge                                      | Metal         | Metal                      |
| L52K13LEM511   | Hinge                                      | Metal         | Metal                      |
| L52K13LEM621   | Hinge                                      | Metal         | Metal                      |
| L52K13LEM622   | Hinge                                      | Metal         | Metal                      |

\* Positive opening Function

Note : For contact block alternatives, please see contact blocks table on Page 36



L52K23LUM322



L52K23LUM323



L52K23LUM322



L52K23LUM323

## L52 Series, Metal Body, Slow Action

| Code          | Actuator               | Actuator Type | Actuator End Unit Material |
|---------------|------------------------|---------------|----------------------------|
| L52K23LUM321* | Curved Key             | Metal         | Metal                      |
| L52K23LUM322* | Straight Key           | Metal         | Metal                      |
| L52K23LUM323  | Movable Key            | Metal         | Metal                      |
| L52K23LUM324  | Movable Key            | Metal         | Metal                      |
| L52K23HUM111  | Metal Ring             | Metal         | Metal                      |
| L52K23HUM112  | Metal Ring, with Reset | Metal         | Metal                      |

\* Positive opening Function

Note: Maximum usable wire length is 12 metre for L52K23HUM111 and L52K23HUM112 limit switches



L53K13MIM311



L53K13MIP211



L53K13MEL123



L53K13MEP125



L53K13PUM211



L53K13MEL123A



L53K13MEM121



L53K13MUM331



L53K13SOM102



L53K13SOP103



L53K23LEM621



L53K13MEM124

## L53 Series, Metal Body, Heavy Duty with 3 Cable Entry, Snap Action, IP 65

| Code           | Actuator                                   | Actuator Type | Actuator End Unit Material |
|----------------|--|---------------|----------------------------|
| L53K13MIP211   | Angular Action Roller One Way              | Metal         | Plastic                    |
| L53K13MIP311*  | Angular Action Roller One Way              | Metal         | Plastic                    |
| L53K13MIP411*  | Angular Action Roller One Way              | Metal         | Plastic                    |
| L53K13MIM211   | Angular Action Roller (22 mm)              | Metal         | Metal                      |
| L53K13MIM311*  | Angular Action Roller One Way              | Metal         | Metal                      |
| L53K13MEP121*  | Angular Action Roller Two Way              | Metal         | Plastic                    |
| L53K13MEP122*  | Angular Action Roller Two Way, Adjustable. | Metal         | Plastic                    |
| L53K13MEP123*  | Angular Action Roller Two Way, Adjustable. | Metal         | Plastic                    |
| L53K13MEP124*  | Angular Action Roller Two Way, Adjustable. | Metal         | Plastic                    |
| L53K13MEP125*  | Angular Action Roller Two Way, Adjustable. | Metal         | Plastic                    |
| L53K13MEM121*  | Angular Action Roller Two Way              | Metal         | Metal                      |
| L53K13MEM122*  | Angular Action Roller Two Way, Adjustable. | Metal         | Metal                      |
| L53K13MEM123*  | Angular Action Roller Two Way, Adjustable. | Metal         | Metal                      |
| L53K13MEL121*  | Angular Action Roller Two Way              | Metal         | Rubber                     |
| L53K13MEL122*  | Angular Action Roller Two Way, Adjustable. | Metal         | Rubber                     |
| L53K13MEL123*  | Angular Action Roller Two Way, Adjustable. | Metal         | Rubber                     |
| L53K13MEL123A* | Angular Action Roller Two Way, Adjustable. | Metal         | Rubber                     |
| L53K13MEM124*  | Angular Action Roller Two Way, Adjustable. | Metal         | Metal                      |
| L53K13MEM125*  | Angular Action Roller Two Way              | Metal         | Metal                      |
| L53K13PUM211*  | Plunger                                    | Metal         | Metal                      |
| L53K13MUM331*  | Linear Roller                              | Metal         | Metal                      |
| L53K13MUP331   | Linear Roller                              | Metal         | Plastic                    |
| L53K13SOM101   | Spiral Lever                               | Metal         | Metal                      |
| L53K13SOM102   | Spiral Arm                                 | Metal         | Metal                      |
| L53K13SOM103   | Spiral Arm                                 | Metal         | Metal                      |
| L53K13SOP101   | Spiral Arm                                 | Metal         | Plastic-Metal              |
| L53K13SOP102   | Spiral Arm                                 | Metal         | Plastic-Metal              |
| L53K13SOP103   | Spiral Arm                                 | Metal         | Plastic-Metal              |
| L53K13ROP101*  | Rigid Rod                                  | Metal         | Plastic                    |
| L53K13REF121   | Rigid Rod                                  | Metal         | Fiber                      |
| L53K13REM121   | Fiber Arm                                  | Metal         | Metal                      |
| L53K13LEM411   | Hinge                                      | Metal         | Metal                      |
| L53K13LEM412   | Hinge                                      | Metal         | Metal                      |
| L53K13LEM511   | Hinge                                      | Metal         | Metal                      |
| L53K13LEM621   | Hinge                                      | Metal         | Metal                      |
| L53K13LEM622   | Hinge                                      | Metal         | Metal                      |

Note : For contact block alternatives, please see contact blocks table on Page 36



L53K23LUM321



L53K23LUM322



L53K23LUM321



L53K23LUM323

## L53 Series, Metal Body, Heavy Duty With 3 Cable Entry, Slow Action, IP 65

| Code         | Actuator               | Actuator Type | Actuator End Unit Material |
|--------------|------------------------|---------------|----------------------------|
| L53K23LUM321 | Curved Key             | Metal         | Metal                      |
| L53K23LUM322 | Straight Key           | Metal         | Metal                      |
| L53K23HUM111 | Metal Ring             | Metal         | Metal                      |
| L53K23HUM112 | Metal Ring, with Reset | Metal         | Metal                      |

Note: Maximum usable wire length is 12 metre for L53K23HUM111 and L53K23HUM112 limit switches



L54K16MIP211



L54K16MIM211



L54K16MIP311



L54K16MIM311



L54K16MEP121



L54K16MEM121



L54K16MEM122



L54K16MEP124



L54K16MEM123



L54K16MEM124



L54K16PUM211



L54K16MEL121



L54K16MEL123



L54K16MEP122



L54K16MUM331

## L54 Series, Snap and Slow Action, IP65

| Code         | Actuator                                  | Actuator Type | Actuator End Unit Material |
|--------------|---|---------------|----------------------------|
| L54K16MIP211 | Angular Action Roller One Way             | Metal         | Plastic                    |
| L54K16MIM211 | Angular Action Roller One Way             | Metal         | Metal                      |
| L54K16MIP311 | Angular Action Roller One Way             | Metal         | Plastic                    |
| L54K16MIM311 | Angular Action Roller One Way             | Metal         | Metal                      |
| L54K16MEP121 | Angular Action Roller Two Way             | Metal         | Plastic                    |
| L54K16MEM121 | Angular Action Roller Two Way             | Metal         | Metal                      |
| L54K16MEP122 | Angular Action Roller Two Way, Adjustable | Metal         | Plastic                    |
| L54K16MEM122 | Angular Action Roller Two Way, Adjustable | Metal         | Metal                      |
| L54K16MEP123 | Angular Action Roller Two Way, Adjustable | Metal         | Plastic                    |
| L54K16MEM123 | Angular Action Roller Two Way, Adjustable | Metal         | Metal                      |
| L54K16MEP124 | Angular Action Roller Two Way, Adjustable | Metal         | Plastic                    |
| L54K16MEM124 | Angular Action Roller Two Way, Adjustable | Metal         | Metal                      |
| L54K16MEL121 | Angular Action Roller Two Way             | Metal         | Rubber                     |
| L54K16MEL122 | Angular Action Roller Two Way             | Metal         | Rubber                     |
| L54K16MEL123 | Angular Action Roller Two Way, Adjustable | Metal         | Rubber                     |
| L54K16PUM211 | Plunger                                   | Metal         | Metal                      |
| L54K16MUM331 | Linear Roller                             | Metal         | Metal                      |



L61K13PUM211



L61K13MUM331



L61K13MEM121



L61K13MEP121

## L61 Series, Metal Body, With Cable, IP67, Snap Action (2 mt.cable)

| Code          | Actuator                      | Actuator Type | Actuator End Unit Material |
|---------------|-------------------------------|---------------|----------------------------|
| L61K13MUM331* | Linear Roller                 | Metal         | Metal                      |
| L61K13PUM211* | Plunger                       | Metal         | Metal                      |
| L61K13MEM121* | Angular Action Roller Two Way | Metal         | Metal                      |
| L61K13MEP121* | Angular Action Roller Two Way | Metal         | Plastic                    |
| L61K13MIM311* | Angular Action Roller One Way | Metal         | Metal                      |
| L61K13MIP311* | Angular Action Roller One Way | Metal         | Plastic                    |



L66K13MUM331



L66K13MEP121



L66K13PUM211



L66K13MEM121

## L66 Series, Plastic Body, With Cable, IP67, Snap Action (2 mt.cable)

| Code          | Actuator                      | Actuator Type | Actuator End Unit Material |
|---------------|-------------------------------|---------------|----------------------------|
| L66K13MUM331* | Linear Roller                 | Metal         | Metal                      |
| L66K13PUM211* | Plunger                       | Metal         | Metal                      |
| L66K13MEM121* | Angular Action Roller Two Way | Plastic       | Metal                      |
| L66K13MEP121* | Angular Action Roller Two Way | Plastic       | Plastic                    |
| L66K13MIM311* | Angular Action Roller One Way | Plastic       | Metal                      |
| L66K13MIP311* | Angular Action Roller One Way | Plastic       | Plastic                    |

\* Positive opening Function

## Spare Parts of Limit Switches

### Actuator

| Code       | Body Type      | Actuator Type                 | End Unit Material | Features                            | Box/ Pcs |
|------------|----------------|-------------------------------|-------------------|-------------------------------------|----------|
| LD11MIP111 | L1,L4          | Angular Action Roller One Way | Plastic           | Metal Sheet Construction            | 20       |
| LD11MIM111 | L1,L4          | Angular Action Roller One Way | Metal             | Metal Sheet Construction            | 20       |
| LD22MIP211 | L1,L2,L4       | Angular Action Roller One Way | Plastic           | Metal Construction                  | 20       |
| LD22MIM211 | L1,L2,L4       | Angular Action Roller One Way | Metal             | Metal Construction                  | 20       |
| LD23MIP311 | L1,L2,L3,L4    | Angular Action Roller One Way | Plastic           | Plastic Construction                | 20       |
| LD23MIM311 | L1,L2,L3,L4    | Angular Action Roller One Way | Metal             | Plastic Construction                | 20       |
| LD23MIP411 | L3             | Angular Action Roller One Way | Plastic           | Plastic Construction with Angle     | 20       |
| LD23MIM411 | L3             | Angular Action Roller One Way | Metal             | Plastic Construction with Angle     | 20       |
| LD23MEP121 | L1,L2,L3,L4    | Angular Action Roller Two Way | Plastic           | Plastic Construction - Rotating Arm | 20       |
| LD23MEM121 | L1,L2,L3,L4    | Angular Action Roller Two Way | Metal             | Plastic Construction - Rotating Arm | 20       |
| LD23PUM211 | L1,L2,L3,L4    | Plunger                       | Metal             | Plastic Construction                | 20       |
| LD23MUM331 | L1,L2,L3,L4    | Linear Roller                 | Metal             | Plastic Construction                | 20       |
| LD23SOM101 | L1,L2,L3       | Spiral Lever                  | Metal             | Plastic Construction - Multi Way    | 20       |
| LD23SOM102 | L1,L2,L3       | Spiral Arm                    | Metal             | Plastic Construction - Multi Way    | 20       |
| LD23SOP101 | L1,L2,L3       | Spiral Arm                    | Plastic           | Plastic Construction - Multi Way    | 20       |
| LD23SOP102 | L1,L2,L3       | Spiral Arm                    | Plastic           | Plastic Construction - Multi Way    | 20       |
| LD23SOP103 | L1,L2,L3       | Spiral Arm                    | Plastic           | Plastic Construction - Multi Way    | 20       |
| LD23ROP101 | L1,L2,L3       | Rigid Rod                     | Plastic           | Plastic Construction - Multi Way    | 20       |
| LD23MEL121 | L1,L2,L3       | Angular Action Roller Two Way | Rubber            | Plastic Construction - Rotating Arm | 20       |
| LD23MEP123 | L2,L3          | Angular Action Roller Two Way | Plastic           | Plastic Construction - Rotating Arm | 20       |
| LD23MEM123 | L2,L3          | Angular Action Roller Two Way | Metal             | Plastic Construction - Rotating Arm | 20       |
| LD33MIM311 | L5             | Angular Action Roller One Way | Metal             | Plastic Construction with Angle     | 20       |
| LD33MIP311 | L5             | Angular Action Roller One Way | Plastic           | Plastic Construction with Angle     | 20       |
| LD33MIP411 | L5             | Angular Action Roller One Way | Plastic           | Plastic Construction with Angle     | 20       |
| LD33MEP121 | L5             | Angular Action Roller Two Way | Plastic           | Plastic Construction - Rotating Arm | 20       |
| LD33MEP122 | L5             | Angular Action Roller Two Way | Plastic           | Plastic Construction - Rotating Arm | 20       |
| LD33MEP123 | L5             | Angular Action Roller Two Way | Plastic           | Plastic Construction - Rotating Arm | 20       |
| LD33MEM122 | L5             | Angular Action Roller Two Way | Metal             | Plastic Construction - Rotating Arm | 20       |
| LD33MEL121 | L5             | Angular Action Roller Two Way | Rubber            | Plastic Construction - Rotating Arm | 20       |
| LD33MEL122 | L5             | Angular Action Roller Two Way | Rubber            | Plastic Construction - Rotating Arm | 20       |
| LD33MEL123 | L5             | Angular Action Roller Two Way | Rubber            | Plastic Construction - Rotating Arm | 20       |
| LD33MEL124 | L5             | Angular Action Roller Two Way | Rubber            | Plastic Construction - Rotating Arm | 20       |
| LD33MUP331 | L5             | Linear Roller                 | Plastic           | Plastic Construction                | 20       |
| LD33MUM331 | L5             | Linear Roller                 | Metal             | Plastic Construction                | 20       |
| LD33CPDE   | L5             | Emergency Stop                | Plastic           | Plastic Construction                | 20       |
| LD33CPA    | L5             | Button Adapter                | -                 | -                                   | 20       |
| LA33LUM320 | L5,L51,L52,L53 | Straight Key                  | Metal             | -                                   | 20       |
| LA33LUM321 | L5,L51,L52,L53 | Curved Key                    | Metal             | -                                   | 20       |
| LA33LUM323 | L5,L51,L52,L53 | Movable Security Key          | Plastic           | -                                   | 20       |
| LA33LUM324 | L5,L51,L52,L53 | Movable Security Key          | Plastic           | -                                   | 20       |



LD11MIP111



LD22MIP211



LD23MIP311



LD23MEM121



LD23SOP101



LD23ROP101



LD33MEP122



LD23SOP103



LD33MIP311



LD33MUM331



LA33LUM323



LA33LUM324



LD51SOM102



LD51SOP102



LD51MEP121



LD51MIP311



LD51MUM331



LD51MEM124



LD51MEM123



LD51MEP123



LK20K13



LK20K25



LK20K28



LK10K13



LK11K13



L5K13



L52K13

## Spare Parts - Actuators

| Code       | Body Type | Actuator                      | End Unit Material | Features                               | Box/Pcs |
|------------|-----------|-------------------------------|-------------------|--|---------|
| LD33SOM101 | L5        | Spiral Lever                  | Metal             | Plastic Construction - Multi Way       | 20      |
| LD33SOP101 | L5        | Spiral Lever                  | Plastic           | Plastic Construction - Multi Way       | 20      |
| LD33SOM102 | L5        | Spiral Arm                    | Metal             | Plastic Construction - Multi Way       | 20      |
| LD33SOP102 | L5        | Spiral Arm                    | Plastic           | Plastic Construction - Multi Way       | 20      |
| LD33LUM321 | L5        | Hinge                         | Metal             | Metal Construction - Rotating Arm      | 20      |
| LD33LUM322 | L5        | Hinge                         | Metal             | Metal Construction - Rotating Arm      | 20      |
| LD33LEM622 | L5        | Hinge                         | Metal             | Metal Construction - Rotating Arm      | 20      |
| LD33BEM621 | L5        | Rotational Tube               | Hinge             | Met. Construction-Rotational Tube      | 20      |
| LD33REF121 | L5        | Rigid Rod                     | Fiber             | Plastic Construction-Rotating Arm      | 20      |
| LD51MIM311 | L51, L52  | Angular Action Roller One Way | Metal             | Metal Construction                     | 20      |
| LD51MIP211 | L51, L52  | Angular Action Roller One Way | Plastic           | Metal Construction                     | 20      |
| LD51MIP311 | L51, L52  | Angular Action Roller Two Way | Plastic           | Metal Construction - Rotating Arm      | 20      |
| LD51MEP121 | L51, L52  | Angular Action Roller Two Way | Plastic           | Metal Construction - Rotating Arm      | 20      |
| LD51MEM121 | L51, L52  | Angular Action Roller Two Way | Metal             | Metal Construction - Rotating Arm      | 20      |
| LD51MEP123 | L51, L52  | Angular Action Roller Two Way | Plastic           | Metal Construction - Long Rotating Arm | 20      |
| LD51MEM123 | L51, L52  | Angular Action Roller Two Way | Metal             | Metal Construction - Long Rotating Arm | 20      |
| LD51MEM124 | L51, L52  | Angular Action Roller Two Way | Metal             | Metal Construction - Long Rotating Arm | 20      |
| LD51MEL121 | L51, L52  | Angular Action Roller Two Way | Rubber            | Plastic Construction-Rotating Arm      | 20      |
| LD51MEL122 | L51, L52  | Angular Action Roller Two Way | Rubber            | Plastic Construction-Rotating Arm      | 20      |
| LD51MUM331 | L51, L52  | Plunger with Roll             | Metal             | Metal Construction                     | 20      |
| LD51SOP101 | L51, L52  | Spiral Lever                  | Plastic           | Metal Construction - Multi Way         | 20      |
| LD51SOP102 | L51, L52  | Spiral Arm                    | Plastic           | Metal Construction - Multi Way         | 20      |
| LD51SOM102 | L51, L52  | Spiral Arm                    | Metal             | Metal Construction - Multi Way         | 20      |
| LD53MIM311 | L53, L54  | Angular Action Roller One Way | Metal             | Metal Construction                     | 20      |
| LD53MIP211 | L53, L54  | Angular Action Roller One Way | Plastic           | Metal Construction                     | 20      |
| LD53MIP311 | L53, L54  | Angular Action Roller Two Way | Plastic           | Metal Construction - Rotating Arm      | 20      |
| LD53MEP121 | L53, L54  | Angular Action Roller Two Way | Plastic           | Metal Construction - Rotating Arm      | 20      |
| LD53MEM121 | L53, L54  | Angular Action Roller Two Way | Metal             | Metal Construction - Rotating Arm      | 20      |
| LD53MEP123 | L53, L54  | Angular Action Roller Two Way | Plastic           | Metal Construction - Long Rotating Arm | 20      |
| LD53MEM123 | L53, L54  | Angular Action Roller Two Way | Metal             | Metal Construction - Long Rotating Arm | 20      |
| LD53MEM124 | L53, L54  | Angular Action Roller Two Way | Metal             | Metal Construction - Long Rotating Arm | 20      |
| LD53MEL121 | L53, L54  | Angular Action Roller Two Way | Rubber            | Plastic Construction - Rotating Arm    | 20      |
| LD53MEL122 | L53, L54  | Angular Action Roller Two Way | Rubber            | Plastic Construction - Rotating Arm    | 20      |
| LD53MUM331 | L53, L54  | Linear Roller                 | Metal             | Metal Construction                     | 20      |
| LD53SOP101 | L53, L54  | Spiral Arm                    | Metal             | Metal Construction - Multi Way         | 20      |
| LD53SOP102 | L53, L54  | Spiral Arm                    | Plastic           | Metal Construction - Multi Way         | 20      |
| LD53SOM102 | L53, L54  | Spiral Arm                    | Metal             | Metal Construction - Multi Way         | 20      |

## Spare Parts - Contact Blocks

| Code     | Action Type | Contact Block          | Plunger Types    | Body Type                          | Box/Pcs |
|----------|-------------|------------------------|------------------|------------------------------------|---------|
| LK10K13  | Snap        | 1 NC + 1 NO            | Short            | L4                                 | 30      |
| LK10K23  | Slow        | 1 NC + 1 NO            | Short            | L4                                 | 30      |
| LK11K13  | Snap        | 1 NC + 1 NO            | Long             | L4                                 | 30      |
| LK11K23  | Slow        | 1 NC + 1 NO            | Long             | L4                                 | 30      |
| LK20K12  | Snap        | 1 NC + 1 NC            | Short            | L1, L2, L3, L5, L51, L52, L53, L54 | 30      |
| LK20K13* | Snap        | 1 NC + 1 NO            | Short            | L1, L2, L3, L5, L51, L52, L53, L54 | 30      |
| LK20K23* | Slow        | 1 NC + 1 NO            | Short            | L1, L2, L3, L5, L51, L52, L53, L54 | 30      |
| LK20K25* | Slow        | 2 NC + 1 NO            | Short            | L1, L2, L3, L5, L51, L52, L53, L54 | 30      |
| LK20K27* | Slow        | 1 NC + 2 NO            | Short            | L1, L2, L3, L5, L51, L52, L53, L54 | 30      |
| LK20K28* | Slow        | 1 NC + 1 NC ( serial ) | Delayed Short    | L1-L54-CSM10                       | 10      |
| LK20K29* | Slow        | 1 NC + 1 NO            | Overlapped Short | L1, L2, L3, L5, L51, L52, L53, L54 | 30      |

## Body (Housing)

| Code   | Body Type | Box/Pcs |
|--------|-----------|---------|
| L1K13  | Aluminium | 1       |
| L2K13  | Aluminium | 1       |
| L3K13  | Plastic   | 1       |
| L5K13  | Plastic   | 1       |
| L51K13 | Metal     | 1       |
| L52K13 | Metal     | 1       |
| L53K13 | Metal     | 1       |
| L54K16 | Metal     | 1       |

\* Positive opening Function



SCM30NP1PSX



SMB10LSZ-B15



SPQ50RP2CSX



SIM12NM1RC2



SKM12P4YXV2



SMS10LC2-S15



SIQ18FP1NC2

# Sensors

## S Series Sensors

- Rapid switching capacity
- Easy to install
- Designed for industrial conditions
- Short circuit and overload protection
- Reverse polarity protection

**Inductive Proximity Switches (3 Wire), IP67**


SIM12FM1PC2



SIM12NM1RC2



SIM12FM1PSX



SIM18NM1PC2



SIM30NM1RSX



SIM30FM1PC2



SIQ18FP1NC2

| Code        | Body Type   | Voltage    | Sensing Distance | Mounting | Switching Frequency | Connection           | Output |
|-------------|-------------|------------|------------------|----------|---------------------|----------------------|--------|
| SIM12FM1NC2 | Cylinder 12 | 10-30 V DC | 2 mm             | Flush    | 800 Hz              | Wire Connection (2m) | NPN-NO |
| SIM12FM1NSX | Cylinder 12 | 10-30 V DC | 2 mm             | Flush    | 800 Hz              | M12 Connector        | NPN-NO |
| SIM12FM1OC2 | Cylinder 12 | 10-30 V DC | 2 mm             | Flush    | 800 Hz              | Wire Connection (2m) | NPN-NC |
| SIM12FM1OSX | Cylinder 12 | 10-30 V DC | 2 mm             | Flush    | 800 Hz              | M12 Connector        | NPN-NC |
| SIM12FM1PC2 | Cylinder 12 | 10-30 V DC | 2 mm             | Flush    | 800 Hz              | Wire Connection (2m) | PNP-NO |
| SIM12FM1PSX | Cylinder 12 | 10-30 V DC | 2 mm             | Flush    | 800 Hz              | M12 Connector        | PNP-NO |
| SIM12FM1RC2 | Cylinder 12 | 10-30 V DC | 2 mm             | Flush    | 800 Hz              | Wire Connection (2m) | PNP-NC |
| SIM12FM1RSX | Cylinder 12 | 10-30 V DC | 2 mm             | Flush    | 800 Hz              | M12 Connector        | PNP-NC |
| SIM12NM1NC2 | Cylinder 12 | 10-30 V DC | 4 mm             | Nonflush | 400 Hz              | Wire Connection (2m) | NPN-NO |
| SIM12NM1NSX | Cylinder 12 | 10-30 V DC | 4 mm             | Nonflush | 400 Hz              | M12 Connector        | NPN-NO |
| SIM12NM1OC2 | Cylinder 12 | 10-30 V DC | 4 mm             | Nonflush | 400 Hz              | Wire Connection (2m) | NPN-NC |
| SIM12NM1OSX | Cylinder 12 | 10-30 V DC | 4 mm             | Nonflush | 400 Hz              | M12 Connector        | NPN-NC |
| SIM12NM1PC2 | Cylinder 12 | 10-30 V DC | 4 mm             | Nonflush | 400 Hz              | Wire Connection (2m) | PNP-NO |
| SIM12NM1PSX | Cylinder 12 | 10-30 V DC | 4 mm             | Nonflush | 400 Hz              | M12 Connector        | PNP-NO |
| SIM12NM1RC2 | Cylinder 12 | 10-30 V DC | 4 mm             | Nonflush | 400 Hz              | Wire Connection (2m) | PNP-NC |
| SIM12NM1RSX | Cylinder 12 | 10-30 V DC | 4 mm             | Nonflush | 400 Hz              | M12 Connector        | PNP-NC |
| SIM18FM1NC2 | Cylinder 18 | 10-30 V DC | 5 mm             | Flush    | 800 Hz              | Wire Connection (2m) | NPN-NO |
| SIM18FM1NSX | Cylinder 18 | 10-30 V DC | 5 mm             | Flush    | 800 Hz              | M12 Connector        | NPN-NO |
| SIM18FM1OC2 | Cylinder 18 | 10-30 V DC | 5 mm             | Flush    | 800 Hz              | Wire Connection (2m) | NPN-NC |
| SIM18FM1OSX | Cylinder 18 | 10-30 V DC | 5 mm             | Flush    | 800 Hz              | M12 Connector        | NPN-NC |
| SIM18FM1PC2 | Cylinder 18 | 10-30 V DC | 5 mm             | Flush    | 800 Hz              | Wire Connection (2m) | PNP-NO |
| SIM18FM1PSX | Cylinder 18 | 10-30 V DC | 5 mm             | Flush    | 800 Hz              | M12 Connector        | PNP-NO |
| SIM18FM1RC2 | Cylinder 18 | 10-30 V DC | 5 mm             | Flush    | 800 Hz              | Wire Connection (2m) | PNP-NC |
| SIM18FM1RSX | Cylinder 18 | 10-30 V DC | 5 mm             | Flush    | 800 Hz              | M12 Connector        | PNP-NC |
| SIM18NM1NC2 | Cylinder 18 | 10-30 V DC | 8 mm             | Nonflush | 400 Hz              | Wire Connection (2m) | NPN-NO |
| SIM18NM1NSX | Cylinder 18 | 10-30 V DC | 8 mm             | Nonflush | 400 Hz              | M12 Connector        | NPN-NO |
| SIM18NM1OC2 | Cylinder 18 | 10-30 V DC | 8 mm             | Nonflush | 400 Hz              | Wire Connection (2m) | NPN-NC |
| SIM18NM1OSX | Cylinder 18 | 10-30 V DC | 8 mm             | Nonflush | 400 Hz              | M12 Connector        | NPN-NC |
| SIM18NM1PC2 | Cylinder 18 | 10-30 V DC | 8 mm             | Nonflush | 400 Hz              | Wire Connection (2m) | PNP-NO |
| SIM18NM1PSX | Cylinder 18 | 10-30 V DC | 8 mm             | Nonflush | 400 Hz              | M12 Connector        | PNP-NO |
| SIM18NM1RC2 | Cylinder 18 | 10-30 V DC | 8 mm             | Nonflush | 400 Hz              | Wire Connection (2m) | PNP-NC |
| SIM18NM1RSX | Cylinder 18 | 10-30 V DC | 8 mm             | Nonflush | 400 Hz              | M12 Connector        | PNP-NC |
| SIM30FM1NC2 | Cylinder 30 | 10-30 V DC | 10 mm            | Flush    | 400 Hz              | Wire Connection (2m) | NPN-NO |
| SIM30FM1NSX | Cylinder 30 | 10-30 V DC | 10 mm            | Flush    | 400 Hz              | M12 Connector        | NPN-NO |
| SIM30FM1OC2 | Cylinder 30 | 10-30 V DC | 10 mm            | Flush    | 400 Hz              | Wire Connection (2m) | NPN-NC |
| SIM30FM1OSX | Cylinder 30 | 10-30 V DC | 10 mm            | Flush    | 400 Hz              | M12 Connector        | NPN-NC |
| SIM30FM1PC2 | Cylinder 30 | 10-30 V DC | 10 mm            | Flush    | 400 Hz              | Wire Connection (2m) | PNP-NO |
| SIM30FM1PSX | Cylinder 30 | 10-30 V DC | 10 mm            | Flush    | 400 Hz              | M12 Connector        | PNP-NO |
| SIM30FM1RC2 | Cylinder 30 | 10-30 V DC | 10 mm            | Flush    | 400 Hz              | Wire Connection (2m) | PNP-NC |
| SIM30FM1RSX | Cylinder 30 | 10-30 V DC | 10 mm            | Flush    | 400 Hz              | M12 Connector        | PNP-NC |
| SIM30NM1NC2 | Cylinder 30 | 10-30 V DC | 15 mm            | Nonflush | 200 Hz              | Wire Connection (2m) | NPN-NO |
| SIM30NM1NSX | Cylinder 30 | 10-30 V DC | 15 mm            | Nonflush | 200 Hz              | M12 Connector        | NPN-NO |
| SIM30NM1OC2 | Cylinder 30 | 10-30 V DC | 15 mm            | Nonflush | 200 Hz              | Wire Connection (2m) | NPN-NC |
| SIM30NM1OSX | Cylinder 30 | 10-30 V DC | 15 mm            | Nonflush | 200 Hz              | M12 Connector        | NPN-NC |
| SIM30NM1PC2 | Cylinder 30 | 10-30 V DC | 15 mm            | Nonflush | 200 Hz              | Wire Connection (2m) | PNP-NO |
| SIM30NM1PSX | Cylinder 30 | 10-30 V DC | 15 mm            | Nonflush | 200 Hz              | M12 Connector        | PNP-NO |
| SIM30NM1RC2 | Cylinder 30 | 10-30 V DC | 15 mm            | Nonflush | 200 Hz              | Wire Connection (2m) | PNP-NC |
| SIM30NM1RSX | Cylinder 30 | 10-30 V DC | 15 mm            | Nonflush | 200 Hz              | M12 Connector        | PNP-NC |
| SIQ18FP1NC2 | Square 18   | 10-30V DC  | 5 mm             | Flush    | 800 Hz              | Wire Connection (2m) | NPN-NO |
| SIQ18FP1NC7 | Square 18   | 10-30V DC  | 5 mm             | Flush    | 800 Hz              | Wire Connection (7m) | NPN-NO |
| SIQ18FP1OC2 | Square 18   | 10-30V DC  | 5 mm             | Flush    | 800 Hz              | Wire Connection (2m) | NPN-NC |
| SIQ18FP1OC7 | Square 18   | 10-30V DC  | 5 mm             | Flush    | 800 Hz              | Wire Connection (7m) | NPN-NC |
| SIQ18FP1PC2 | Square 18   | 10-30V DC  | 5 mm             | Flush    | 800 Hz              | Wire Connection (2m) | PNP-NO |
| SIQ18FP1PC7 | Square 18   | 10-30V DC  | 5 mm             | Flush    | 800 Hz              | Wire Connection (7m) | PNP-NO |
| SIQ18FP1RC2 | Square 18   | 10-30V DC  | 5 mm             | Flush    | 800 Hz              | Wire Connection (2m) | PNP-NC |
| SIQ18FP1RC7 | Square 18   | 10-30V DC  | 5 mm             | Flush    | 800 Hz              | Wire Connection (7m) | PNP-NC |

**Inductive Proximity Switches (3 Wire), IP67**

| Code        | Body Type | Voltage   | Sensing Distance | Mounting | Switching Frequency | Connection           | Output |
|-------------|-----------|-----------|------------------|----------|---------------------|----------------------|--------|
| SIQ18NP1NC2 | Square 18 | 10-30V DC | 8mm              | Nonflush | 400 Hz              | Wire Connection (2m) | NPN-NO |
| SIQ18NP1NC7 | Square 18 | 10-30V DC | 8mm              | Nonflush | 400 Hz              | Wire Connection (7m) | NPN-NO |
| SIQ18NP1OC2 | Square 18 | 10-30V DC | 8mm              | Nonflush | 400 Hz              | Wire Connection (2m) | NPN-NC |
| SIQ18NP1OC7 | Square 18 | 10-30V DC | 8mm              | Nonflush | 400 Hz              | Wire Connection (7m) | NPN-NC |
| SIQ18NP1PC2 | Square 18 | 10-30V DC | 8mm              | Nonflush | 400 Hz              | Wire Connection (2m) | PNP-NO |
| SIQ18NP1PC7 | Square 18 | 10-30V DC | 8mm              | Nonflush | 400 Hz              | Wire Connection (7m) | PNP-NO |
| SIQ18NP1RC2 | Square 18 | 10-30V DC | 8mm              | Nonflush | 400 Hz              | Wire Connection (2m) | PNP-NC |
| SIQ18NP1RC7 | Square 18 | 10-30V DC | 8mm              | Nonflush | 400 Hz              | Wire Connection (7m) | PNP-NC |



SCM18NP1NC2



SCM30NP1PC2

**Capacitive Proximity Switches (3 Wire), IP65**

| Code        | Body Type   | Voltage    | Sensing Distance | Mounting | Body Material | Connection           | Output |
|-------------|-------------|------------|------------------|----------|---------------|----------------------|--------|
| SCM18NP1NC2 | Cylinder 18 | 10-30 V DC | 2-10mm           | Nonflush | Plastic       | Wire Connection (2m) | NPN-NO |
| SCM18NP1OC2 | Cylinder 18 | 10-30 V DC | 2-10mm           | Nonflush | Plastic       | Wire Connection (2m) | NPN-NC |
| SCM18NP1PC2 | Cylinder 18 | 10-30 V DC | 2-10mm           | Nonflush | Plastic       | Wire Connection (2m) | PNP-NO |
| SCM18NP1RC2 | Cylinder 18 | 10-30 V DC | 2-10mm           | Nonflush | Plastic       | Wire Connection (2m) | PNP-NC |
| SCM30NM1NC2 | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Metal         | Wire Connection (2m) | NPN-NO |
| SCM30NM1NSX | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Metal         | M12 Connector        | NPN-NO |
| SCM30NM1OC2 | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Metal         | Wire Connection (2m) | NPN-NC |
| SCM30NM1OSX | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Metal         | M12 Connector        | NPN-NC |
| SCM30NM1PC2 | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Metal         | Wire Connection (2m) | PNP-NO |
| SCM30NM1PSX | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Metal         | M12 Connector        | PNP-NO |
| SCM30NM1RC2 | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Metal         | Wire Connection (2m) | PNP-NC |
| SCM30NM1RSX | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Metal         | M12 Connector        | PNP-NC |
| SCM30NP1NC2 | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Plastic       | Wire Connection (2m) | NPN-NO |
| SCM30NP1NSX | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Plastic       | M12 Connector        | NPN-NO |
| SCM30NP1OC2 | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Plastic       | Wire Connection (2m) | NPN-NC |
| SCM30NP1OSX | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Plastic       | M12 Connector        | NPN-NC |
| SCM30NP1PC2 | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Plastic       | Wire Connection (2m) | PNP-NO |
| SCM30NP1PSX | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Plastic       | M12 Connector        | PNP-NO |
| SCM30NP1RC2 | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Plastic       | Wire Connection (2m) | PNP-NC |
| SCM30NP1RSX | Cylinder 30 | 10-30 V DC | 3-15mm           | Nonflush | Plastic       | M12 Connector        | PNP-NC |



SPM18DP4DC2



SPQ50RP2CSX

**Photoelectric Proximity Switches (4 Wire), IP65**

| Code        | Body Type   | Voltage       | Sensing Distance | Operating Type     | Response Time | Connection           | Output       |
|-------------|-------------|---------------|------------------|--------------------|---------------|----------------------|--------------|
| SPM18DP4DC2 | Cylinder 18 | 10-30 V DC    | 400mm            | Diffuse Reflection | 2ms           | Wire Connection (2m) | PNP 1NO+1NC  |
| SPM18DP4EC2 | Cylinder 18 | 10-30 V DC    | 400mm            | Diffuse Reflection | 2ms           | Wire Connection (2m) | NPN 1NO+1NC  |
| SPQ50RP2CC2 | Square 50   | 24-240V AC/DC | 7 Metre          | Retro Reflection   | Max. 20ms     | Wire Connection (2m) | Relay Output |
| SPQ50RP2CSX | Square 50   | 24-240V AC/DC | 7 Metre          | Retro Reflection   | Max. 20ms     | Connector M12*4      | Relay Output |
| SPQ50DP2CC2 | Square 50   | 24-240V AC/DC | 0,5 Metre        | Diffuse Reflection | Max. 20ms     | Wire Connection (2m) | Relay Output |
| SPQ50DP2CSX | Square 50   | 24-240V AC/DC | 0,5 Metre        | Diffuse Reflection | Max. 20ms     | Connector M12*4      | Relay Output |

\*Reflector is included in the price of 40\*60 mm Diffuse Reflection Models.



SMB31LC2-B15



SMB10LSZ-B15



SMS10RC2-S15



SMS10RSZ-S15

### Magnetic Switch, IP68

| Code         | Body Type         | Contact Type | Mounting Type | Connection           | Features | Sensing Distance | Box/ Pcs |
|--------------|-------------------|--------------|---------------|----------------------|----------|------------------|----------|
| SMB10LC2-B1* | Rectangular 78 mm | 1NC+1NO      | Left Exit     | Wire Connection (2m) |          | 5 mm / 8 mm      | 1        |
| SMB10LSZ-B1* | Rectangular 78 mm | 1NC+1NO      | Left Exit     | M8*4 Connection      |          | 5 mm / 8 mm      | 1        |
| SMB10RC2-B1* | Rectangular 78 mm | 1NC+1NO      | Right Exit    | Wire Connection (2m) |          | 5 mm / 8 mm      | 1        |
| SMB10RSZ-B1* | Rectangular 78 mm | 1NC+1NO      | Right Exit    | M8*4 Connection      |          | 5 mm / 8 mm      | 1        |
| SMB11LC2-B1* | Rectangular 78 mm | 1NC+1NO      | Left Exit     | Wire Connection (2m) | LED      | 5 mm / 8 mm      | 1        |
| SMB11LSZ-B1* | Rectangular 78 mm | 1NC+1NO      | Left Exit     | M8*4 Connection      | LED      | 5 mm / 8 mm      | 1        |
| SMB11RC2-B1* | Rectangular 78 mm | 1NC+1NO      | Right Exit    | Wire Connection (2m) | LED      | 5 mm / 8 mm      | 1        |
| SMB11RSZ-B1* | Rectangular 78 mm | 1NC+1NO      | Right Exit    | M8*4 Connection      | LED      | 5 mm / 8 mm      | 1        |
| SMB20LC2-B1* | Rectangular 78 mm | 2NC          | Left Exit     | Wire Connection (2m) |          | 5 mm / 8 mm      | 1        |
| SMB20LSZ-B1* | Rectangular 78 mm | 2NC          | Left Exit     | M8*4 Connection      |          | 5 mm / 8 mm      | 1        |
| SMB20RC2-B1* | Rectangular 78 mm | 2NC          | Right Exit    | Wire Connection (2m) |          | 5 mm / 8 mm      | 1        |
| SMB20RSZ-B1* | Rectangular 78 mm | 2NC          | Right Exit    | M8*4 Connection      |          | 5 mm / 8 mm      | 1        |
| SMB21LC2-B1* | Rectangular 78 mm | 2NC          | Left Exit     | Wire Connection (2m) | LED      | 5 mm / 8 mm      | 1        |
| SMB21LSZ-B1* | Rectangular 78 mm | 2NC          | Left Exit     | M8*4 Connection      | LED      | 5 mm / 8 mm      | 1        |
| SMB21RC2-B1* | Rectangular 78 mm | 2NC          | Right Exit    | Wire Connection (2m) | LED      | 5 mm / 8 mm      | 1        |
| SMB21RSZ-B1* | Rectangular 78 mm | 2NC          | Right Exit    | M8*4 Connection      | LED      | 5 mm / 8 mm      | 1        |
| SMB30LC2-B1* | Rectangular 78 mm | 2NC+NO       | Left Exit     | Wire Connection (2m) |          | 5 mm / 8 mm      | 1        |
| SMB30LSX-B1* | Rectangular 78 mm | 2NC+NO       | Left Exit     | M12*8 Connection     |          | 5 mm / 8 mm      | 1        |
| SMB30RC2-B1* | Rectangular 78 mm | 2NC+NO       | Right Exit    | Wire Connection (2m) |          | 5 mm / 8 mm      | 1        |
| SMB30RSX-B1* | Rectangular 78 mm | 2NC+NO       | Right Exit    | M12*8 Connection     |          | 5 mm / 8 mm      | 1        |
| SMB31LC2-B1* | Rectangular 78 mm | 2NC+NO       | Left Exit     | Wire Connection (2m) | LED      | 5 mm / 8 mm      | 1        |
| SMB31LSX-B1* | Rectangular 78 mm | 2NC+NO       | Left Exit     | M12*8 Connection     | LED      | 5 mm / 8 mm      | 1        |
| SMB31RC2-B1* | Rectangular 78 mm | 2NC+NO       | Right Exit    | Wire Connection (2m) | LED      | 5 mm / 8 mm      | 1        |
| SMB31RSX-B1* | Rectangular 78 mm | 2NC+NO       | Right Exit    | M12*8 Connection     | LED      | 5 mm / 8 mm      | 1        |
| SMS10LC2-S15 | Rectangular 22 mm | 1NC+1NO      | Left Exit     | Wire Connection (2m) |          | 5 mm             | 1        |
| SMS10LSZ-S15 | Rectangular 22 mm | 1NC+1NO      | Left Exit     | M8*4 Connection      |          | 5 mm             | 1        |
| SMS10RC2-S15 | Rectangular 22 mm | 1NC+1NO      | Right Exit    | Wire Connection (2m) |          | 5 mm             | 1        |
| SMS10RSZ-S15 | Rectangular 22 mm | 1NC+1NO      | Right Exit    | M8*4 Connection      |          | 5 mm             | 1        |
| SMS11LC2-S15 | Rectangular 22 mm | 1NC+1NO      | Left Exit     | Wire Connection (2m) | LED      | 5 mm             | 1        |
| SMS11LSZ-S15 | Rectangular 22 mm | 1NC+1NO      | Left Exit     | M8*4 Connection      | LED      | 5 mm             | 1        |
| SMS11RC2-S15 | Rectangular 22 mm | 1NC+1NO      | Right Exit    | Wire Connection (2m) | LED      | 5 mm             | 1        |
| SMS11RSZ-S15 | Rectangular 22 mm | 1NC+1NO      | Right Exit    | M8*4 Connection      | LED      | 5 mm             | 1        |
| SMS20LC2-S15 | Rectangular 22 mm | 2NC          | Left Exit     | Wire Connection (2m) |          | 5 mm             | 1        |
| SMS20LSZ-S15 | Rectangular 22 mm | 2NC          | Left Exit     | M8*4 Connection      |          | 5 mm             | 1        |

Note 1: SMB10LC2-B1\* code means Actuator and Switch together. Switch code is SMB10LC2, Actuator code is SMB15.

Note 2 : \* Refers to Sensing Distance, If it is 5 , it means 5 mm sensing distance. If it is 8, it means 8 mm sensing distance.



SMS10LC2-S15

**Magnetic Switch, IP68**

| Code         | Body Type         | Contact Type | Mounting-Type | Connection           | Features | Sensing Distance | Box/ Pcs |
|--------------|-------------------|--------------|---------------|----------------------|----------|------------------|----------|
| SMS20RC2-S15 | Rectangular 22 mm | 2NC          | Right Exit    | Wire Connection (2m) |          | 5 mm             | 1        |
| SMS20RSZ-S15 | Rectangular 22 mm | 2NC          | Right Exit    | M8*4 Connection      |          | 5 mm             | 1        |
| SMS21LC2-S15 | Rectangular 22 mm | 2NC          | Left Exit     | Wire Connection (2m) | LED      | 5 mm             | 1        |
| SMS21LSZ-S15 | Rectangular 22 mm | 2NC          | Left Exit     | M8*4 Connection      | LED      | 5 mm             | 1        |
| SMS21RC2-S15 | Rectangular 22 mm | 2NC          | Right Exit    | Wire Connection (2m) | LED      | 5 mm             | 1        |
| SMS21RSZ-S15 | Rectangular 22 mm | 2NC          | Right Exit    | M8*4 Connection      | LED      | 5 mm             | 1        |
| SMS30LC2-S15 | Rectangular 22 mm | 2NC+NO       | Left Exit     | Wire Connection (2m) |          | 5 mm             | 1        |
| SMS30LSX-S15 | Rectangular 22 mm | 2NC+NO       | Left Exit     | M12*8 Connection     |          | 5 mm             | 1        |
| SMS30RC2-S15 | Rectangular 22 mm | 2NC+NO       | Right Exit    | Wire Connection (2m) |          | 5 mm             | 1        |
| SMS30RSX-S15 | Rectangular 22 mm | 2NC+NO       | Right Exit    | M12*8 Connection     |          | 5 mm             | 1        |
| SMS31LC2-S15 | Rectangular 22 mm | 2NC+NO       | Left Exit     | Wire Connection (2m) | LED      | 5 mm             | 1        |
| SMS31LSX-S15 | Rectangular 22 mm | 2NC+NO       | Left Exit     | M12*8 Connection     | LED      | 5 mm             | 1        |
| SMS31RC2-S15 | Rectangular 22 mm | 2NC+NO       | Right Exit    | Wire Connection (2m) | LED      | 5 mm             | 1        |
| SMS31RSX-S15 | Rectangular 22 mm | 2NC+NO       | Right Exit    | M12*8 Connection     | LED      | 5 mm             | 1        |

Note 1: SMB10LC2-B1\* code means Actuator and Switch together. Switch code is SMB10LC2, Actuator code is SMB15.



Sensör Tester

**Sensor Test Device**

Ürün Kodu

SENSOR TESTER



SKM12P4DXV2



SKM12P4YXV2

**Connector Cables**

| Code        | Connector Size | Connector Type | Pin | Angle     | Cable Material | Cable Length |
|-------------|----------------|----------------|-----|-----------|----------------|--------------|
| SKM12P3YXV2 | M12            | Socket         | 3   |           | PVC            | 2 Metre      |
| SKM12P3YXV5 | M12            | Socket         | 3   |           | PVC            | 5 Metre      |
| SKM12F3YXV2 | M12            | Plug           | 3   |           | PVC            | 2 Metre      |
| SKM12F3YXV5 | M12            | Plug           | 3   |           | PVC            | 5 Metre      |
| SKM12P4YXV2 | M12            | Socket         | 4   |           | PVC            | 2 Metre      |
| SKM12P4YXV5 | M12            | Socket         | 4   |           | PVC            | 5 Metre      |
| SKM12F4YXV2 | M12            | Plug           | 4   |           | PVC            | 2 Metre      |
| SKM12F4YXV5 | M12            | Plug           | 4   |           | PVC            | 5 Metre      |
| SKM12P3DXV2 | M12            | Socket         | 3   | 90 Degree | PVC            | 2 Metre      |
| SKM12P3DXV5 | M12            | Socket         | 3   | 90 Degree | PVC            | 5 Metre      |
| SKM12F3DXV2 | M12            | Plug           | 3   | 90 Degree | PVC            | 2 Metre      |
| SKM12F3DXV5 | M12            | Plug           | 3   | 90 Degree | PVC            | 5 Metre      |
| SKM12P4DXV2 | M12            | Socket         | 4   | 90 Degree | PVC            | 2 Metre      |
| SKM12P4DXV5 | M12            | Socket         | 4   | 90 Degree | PVC            | 5 Metre      |
| SKM12F4DXV2 | M12            | Plug           | 4   | 90 Degree | PVC            | 2 Metre      |
| SKM12F4DXV5 | M12            | Plug           | 4   | 90 Degree | PVC            | 5 Metre      |
| SKM12P3YXP2 | M12            | Socket         | 3   |           | PUR            | 2 Metre      |
| SKM12P3YXP5 | M12            | Socket         | 3   |           | PUR            | 5 Metre      |
| SKM12F3YXP2 | M12            | Plug           | 3   |           | PUR            | 2 Metre      |
| SKM12F3YXP5 | M12            | Plug           | 3   |           | PUR            | 5 Metre      |
| SKM12P4YXP2 | M12            | Socket         | 3   |           | PUR            | 2 Metre      |
| SKM12P4YXP5 | M12            | Socket         | 3   |           | PUR            | 5 Metre      |
| SKM12F4YXP2 | M12            | Plug           | 3   |           | PUR            | 2 Metre      |
| SKM12F4YXP5 | M12            | Plug           | 3   |           | PUR            | 5 Metre      |
| SKM12P3DXP2 | M12            | Socket         | 4   | 90 Degree | PUR            | 2 Metre      |
| SKM12P3DXP5 | M12            | Socket         | 4   | 90 Degree | PUR            | 5 Metre      |
| SKM12F3DXP2 | M12            | Plug           | 4   | 90 Degree | PUR            | 2 Metre      |
| SKM12F3DXP5 | M12            | Plug           | 4   | 90 Degree | PUR            | 5 Metre      |
| SKM12P4DXP2 | M12            | Socket         | 4   | 90 Degree | PUR            | 2 Metre      |
| SKM12P4DXP5 | M12            | Socket         | 4   | 90 Degree | PUR            | 5 Metre      |
| SKM12F4DXP2 | M12            | Plug           | 4   | 90 Degree | PUR            | 2 Metre      |
| SKM12F4DXP5 | M12            | Plug           | 4   | 90 Degree | PUR            | 5 Metre      |

When you requested double-sided connector cable, the following code should be added at the end of the codes.

|  |   |   |
|--|---|---|
| A To the other side of cable M8 3 Pin Plug   | D To the other side of cable M8 4 Pin Socket  | G To the other side of cable M12 4 Pin Plug   |
| B To the other side of cable M8 3 Pin Socket | E To the other side of cable M12 3 Pin Plug   | H To the other side of cable M12 4 Pin Socket |
| C To the other side of cable M8 4 Pin Plug   | F To the other side of cable M12 3 Pin Socket |   |



MN3PUM9



PHE111



PTM111



A14B4K11



A54B1S11



MA111K



MN1MUM8



MK1MIP3



A71B1Y11



BS1012



MN2MIM2



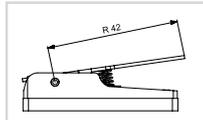
MN2KIM2

# Basic Switches

## MN Series Mini Switch



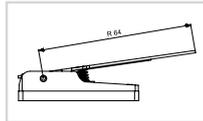
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MN+KIM1



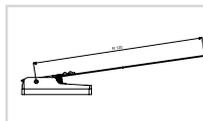
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MN+KIM2



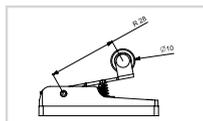
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MN+KIM3



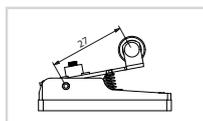
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MN+MIM1



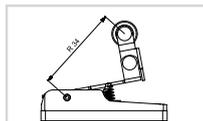
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MN+MIM1A



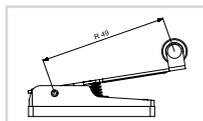
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MN+MIM1Y



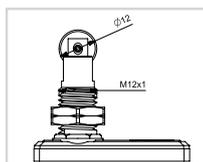
MN1MIM2



MN+MIM2



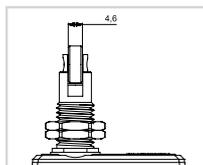
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MN+MUM3



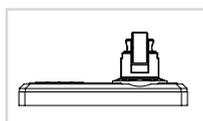
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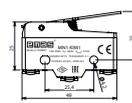
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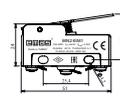
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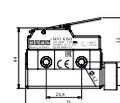
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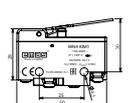
MN1



MN2



MN3 (IP65)



MN4

|              |         |         |                |           |
|--------------|---------|---------|----------------|-----------|
| Box/Pcs      | 10      | 10      | 10             | 10        |
| Code         | MN1KIM1 | MN2KIM1 | MN3KIM1 (IP65) | MN4KIM1   |
| Contact Type | 1 CO    | 1 CO    | 1 CO           | 1 NC+1 NO |

|              |         |         |                |           |
|--------------|---------|---------|----------------|-----------|
| Code         | MN1KIM2 | MN2KIM2 | MN3KIM2 (IP65) | MN4KIM2   |
| Contact Type | 1 CO    | 1 CO    | 1 CO           | 1 NC+1 NO |

|              |         |         |                |           |
|--------------|---------|---------|----------------|-----------|
| Code         | MN1KIM3 | MN2KIM3 | MN3KIM3 (IP65) | MN4KIM3   |
| Contact Type | 1 CO    | 1 CO    | 1 CO           | 1 NC+1 NO |

|              |         |         |                |           |
|--------------|---------|---------|----------------|-----------|
| Code         | MN1MIM1 | MN2MIM1 | MN3MIM1 (IP65) | MN4MIM1   |
| Contact Type | 1 CO    | 1 CO    | 1 CO           | 1 NC+1 NO |

|              |          |          |                 |  |
|--------------|----------|----------|-----------------|--|
| Code         | MN1MIM1A | MN2MIM1A | MN3MIM1A (IP65) |  |
| Contact Type | 1 CO     | 1 CO     | 1 CO            |  |

|              |          |          |                 |           |
|--------------|----------|----------|-----------------|-----------|
| Code         | MN1MIM1Y | MN2MIM1Y | MN3MIM1Y (IP65) | MN4MIM1Y  |
| Contact Type | 1 CO     | 1 CO     | 1 CO            | 1 NC+1 NO |

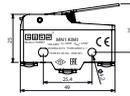
|              |         |         |                |           |
|--------------|---------|---------|----------------|-----------|
| Code         | MN1MIM2 | MN2MIM2 | MN3MIM2 (IP65) | MN4MIM2   |
| Contact Type | 1 CO    | 1 CO    | 1 CO           | 1 NC+1 NO |

|              |         |         |                |  |
|--------------|---------|---------|----------------|--|
| Code         | MN1MUM3 | MN2MUM3 | MN3MUM3 (IP65) |  |
| Contact Type | 1 CO    | 1 CO    | 1 CO           |  |

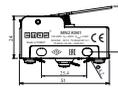
|              |         |         |                |  |
|--------------|---------|---------|----------------|--|
| Code         | MN1MUM8 | MN2MUM8 | MN3MUM8 (IP65) |  |
| Contact Type | 1 CO    | 1 CO    | 1 CO           |  |

|              |         |  |  |  |
|--------------|---------|--|--|--|
| Code         | MN1MUM9 |  |  |  |
| Contact Type | 1 CO    |  |  |  |

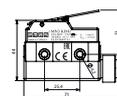
## MN Series Mini Switch



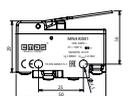
MN1



MN2



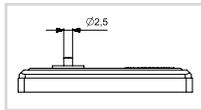
MN3 (IP65)



MN4



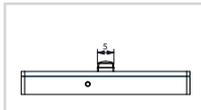
MN1PUM1



MN+PUM1



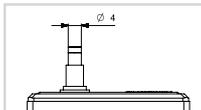
MN4PUP1



MN+PUP1



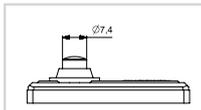
MN2PUM3



MN+PUM3



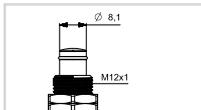
MN3PUM7



MN+PUM7



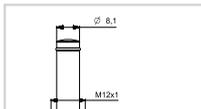
MN3PUM9



MN+PUM9



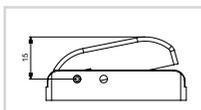
MN1PUM9U



MN+PUM9U



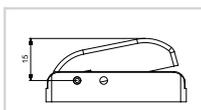
MN2TIP11



MN+TIP11



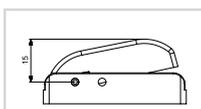
MN2TIP11Y



MN+TIP11Y\*



MN2TIP1



MN+TIP1

|              |         |         |                |    |
|--------------|---------|---------|----------------|----|
| Box/Pcs      | 10      | 10      | 10             | 10 |
| Code         | MN1PUM1 | MN2PUM1 | MN3PUM1 (IP65) |    |
| Contact Type | 1 CO    | 1 CO    | 1 CO           |    |

|              |  |  |  |           |
|--------------|--|--|--|-----------|
| Code         |  |  |  | MN4PUP1   |
| Contact Type |  |  |  | 1 NC+1 NO |

|              |         |         |                |  |
|--------------|---------|---------|----------------|--|
| Code         | MN1PUM3 | MN2PUM3 | MN3PUM3 (IP65) |  |
| Contact Type | 1 CO    | 1 CO    | 1 CO           |  |

|              |         |         |                |  |
|--------------|---------|---------|----------------|--|
| Code         | MN1PUM7 | MN2PUM7 | MN3PUM7 (IP65) |  |
| Contact Type | 1 CO    | 1 CO    | 1 CO           |  |

|              |         |         |                |  |
|--------------|---------|---------|----------------|--|
| Code         | MN1PUM9 | MN2PUM9 | MN3PUM9 (IP65) |  |
| Contact Type | 1 CO    | 1 CO    | 1 CO           |  |

|              |          |  |  |  |
|--------------|----------|--|--|--|
| Code         | MN1PUM9U |  |  |  |
| Contact Type | 1 CO     |  |  |  |

|              |  |          |  |  |
|--------------|--|----------|--|--|
| Code         |  | MN2TIP11 |  |  |
| Contact Type |  | 1 NO     |  |  |

|              |  |            |  |  |
|--------------|--|------------|--|--|
| Code         |  | MN2TIP11Y* |  |  |
| Contact Type |  | 1 NO       |  |  |

|              |  |         |  |  |
|--------------|--|---------|--|--|
| Code         |  | MN2TIP1 |  |  |
| Contact Type |  | 1 CO    |  |  |

| Code    | Type             | Features                 | Box/Pcs |
|---------|------------------|--------------------------|---------|
| MN1YKAP | Protection Cover | Suitable for MN1 and MN2 | 10      |

\* Hardened spring and green button



MK1PUP1



MK1KIM1



MK1MIP3



MK1KIM5



MK1PUM9



MK1KIM31A



MK1KIM2



MK1KIM3

## Micro Switch

| Code      | Contact Type | Actuator     | Actuator Material | Box/Pcs |
|-----------|--------------|--------------|-------------------|---------|
| MK1PUM9   | 1 CO         | Plunger      | Metal             | 10      |
| MK1PUP1   | 1 CO         | Plunger      | Plastic           | 50      |
| MK1PUP1Y  | 1 CO         | Plunger      | Soft Plastic      | 50      |
| MK1KIM1   | 1 CO         | Lever        | Metal             | 50      |
| MK1KIM2   | 1 CO         | Lever        | Metal             | 50      |
| MK1KIM3   | 1 CO         | Lever        | Metal             | 50      |
| MK1KIM31A | 1 NC         | Lever        | Metal             | 50      |
| MK1KIM4   | 1 CO         | Lever        | Metal             | 50      |
| MK1KIM5   | 1 CO         | Lever        | Metal             | 40      |
| MK1MIM1   | 1 CO         | Roller Lever | Metal             | 40      |
| MK1MIM2   | 1 CO         | Roller Lever | Metal             | 40      |
| MK1MIP1   | 1 CO         | Roller Lever | Metal             | 50      |
| MK1MIP2   | 1 CO         | Roller Lever | Plastic           | 40      |
| MK1MIP3   | 1 CO         | Roller Lever | Plastic           | 40      |



MK1KIM4



MK1MIM1



MK1MIM2



MK1MIP1



MK1MIP2



BS1022



BS1012



BS1010E



BS1012E



BS1011V

## Button Switch, IP50

| Code    | Contact Type         | Actuator           | Actuator Material          | Box/Pcs |
|---------|----------------------|--------------------|----------------------------|---------|
| BS1010  | 1 NO, Snap Action    | Plunger            | Plastic                    | 20      |
| BS1010E | 1 NO, Snap Action    | Plunger            | Plastic with Silicon Cover | 16      |
| BS1011  | 1 NC, Snap Action    | Plunger            | Plastic                    | 20      |
| BS1011E | 1 NC, Snap Action    | Plunger            | Plastic with Silicon Cover | 16      |
| BS1011V | 1NO, Snap Action     | Plunger (17,20 mm) | Plastic                    | 20      |
| BS1012  | 1NO+1NC, Snap Action | Plunger            | Plastic                    | 20      |
| BS1012E | 1NO+1NC, Snap Action | Plunger            | Plastic with Silicon Cover | 16      |
| BS1020  | 1 NO, Slow Action    | Plunger            | Plastic                    | 20      |
| BS1021  | 1 NC, Slow Action    | Plunger            | Plastic                    | 20      |
| BS1022  | 1NO+1NC, Snap Action | Plunger            | Plastic                    | 20      |
| BS1040  | 1 NO, Snap Action    | Plunger            | Plastic                    | 20      |
| BS1041  | 1 NC, Snap Action    | Plunger            | Plastic                    | 20      |
| BS1042  | 1NO+1NC, Snap Action | Plunger            | Plastic                    | 20      |



BS1010TX1

## Button Switches, IP 67

| Code      | Contact Type                | Cable Length | Actuator | Actuator Material         | Box/Pcs |
|-----------|-----------------------------|--------------|----------|---------------------------|---------|
| BS1010TX1 | 1NO, Snap Action            | 1m           | Plunger  | Plastic, With Silicon Cap | 1       |
| BS1011TX1 | 1NC, Snap Action            | 1m           | Plunger  | Plastic, With Silicon Cap | 1       |
| BS1012TX1 | Double Circuit, Snap Action | 1m           | Plunger  | Plastic, With Silicon Cap | 1       |



MA111



MA211



MA111K



MAK

## Toggle Switch

| Code    | Contact Type | Cable Connection      | Actuator Material      | Plate          | Box/Pcs |
|---------|--------------|-----------------------|------------------------|----------------|---------|
| MA111   | 1 NO         | 2 Screws              | Metal                  | On-Off         | 10      |
| MA111K  | 1 NO         | 2 Screws, With cover  | Metal                  | On-Off         | 10      |
| MA111L  | 1 NO         | 2 Soldering Terminals | Metal                  | On-Off         | 10      |
| MA111T  | 1 NO         | 2 Terminals           | Metal                  | On-Off         | 10      |
| MA111TT | 1 NO         | 2 Terminals           | Metal                  | On-Off (Black) | 10      |
| MA112   | 1 NO, 1 NC   | 3 Screws              | Metal                  | On-On          | 10      |
| MA113   | 1 NO, 1 NO   | 3 Screws              | Metal                  | On-Off-On      | 10      |
| MA121   | 1 NO         | 2 Screws              | Metal, Plastic Covered | On-Off         | 10      |
| MA122   | 1 NO, 1 NC   | 3 Screws              | Metal, Plastic Covered | On-On          | 10      |
| MA123   | 1 NO, 1 NO   | 3 Screws              | Metal, Plastic Covered | On-Off-On      | 10      |
| MA211   | 2 NO         | 4 Screws              | Metal                  | On-Off         | 6       |
| MA212   | 2 NO + 2 NC  | 6 Screws              | Metal                  | On-On          | 6       |
| MA212T  | 2 NO + 2 NC  | 6 Terminals           | Metal                  | On-On          | 6       |
| MA213   | 2 NO + 2 NO  | 6 Screws              | Metal                  | On-Off-On      | 6       |
| MA213T  | 2 NO + 2 NO  | 6 Terminals           | Metal                  | On-Off-On      | 6       |
| MA221   | 2 NO         | 4 Screws              | Metal, Plastic Covered | On-Off         | 6       |
| MA222   | 2 NO + 2 NC  | 6 Screws              | Metal, Plastic Covered | On-On          | 6       |
| MA222T  | 2 NO + 2 NC  | 6 Terminals           | Metal, Plastic Covered | On-On          | 6       |
| MA223   | 2 NO + 2 NO  | 6 Screws              | Metal, Plastic Covered | On-Off-On      | 6       |
| MA223T  | 2 NO + 2 NC  | 6 Terminals           | Metal, Plastic Covered | On-Off-On      | 6       |
| MAK     | -            | -                     | Plastic                | -              | 10      |



MAY111



MAY211



MAY213



MAY222

## Toggle Switch, Spring Return

| Code    | Contact Type | Cable Connection      | Actuator Material      | Plate     | Box/Pcs |
|---------|--------------|-----------------------|------------------------|-----------|---------|
| MAY111  | 1 NO         | 2 Screws              | Metal                  | On-Off    | 10      |
| MAY111L | 1 NO         | 2 Soldering Terminals | Metal                  | On-Off    | 10      |
| MAY111T | 1 NO         | 2 Terminals           | Metal                  | On-Off    | 10      |
| MAY112  | 1 NO, 1 NO   | 3 Screws              | Metal                  | On-On     | 10      |
| MAY113  | 1 NO, 1 NO   | 3 Screws              | Metal                  | On-Off-On | 10      |
| MAY121  | 1 NO         | 2 Screws              | Metal, Plastic Covered | On-Off    | 10      |
| MAY122  | 1 NO, 1 NO   | 3 Screws              | Metal, Plastic Covered | On-On     | 10      |
| MAY123  | 1 NO, 1 NO   | 3 Screws              | Metal, Plastic Covered | On-Off-On | 10      |
| MAY211  | 2 NO         | 4 Screws              | Metal                  | On-Off    | 6       |
| MAY212  | 2 NO + 2 NO  | 6 Screws              | Metal                  | On-On     | 6       |
| MAY212T | 2 NO + 2 NO  | 6 Terminals           | Metal                  | On-On     | 6       |
| MAY213  | 2 NO + 2 NO  | 6 Screws              | Metal                  | On-Off-On | 6       |
| MAY213T | 2 NO + 2 NO  | 6 Terminals           | Metal                  | On-Off-On | 6       |
| MAY221  | 2 NO         | 4 Screws              | Metal, Plastic Covered | On-Off    | 6       |
| MAY222  | 2 NO + 2 NO  | 6 Screws              | Metal, Plastic Covered | On-On     | 6       |
| MAY222T | 2 NO + 2 NO  | 6 Terminals           | Metal, Plastic Covered | On-On     | 6       |
| MAY223  | 2 NO + 2 NO  | 6 Screws              | Metal, Plastic Covered | On-Off-On | 6       |



K25001T



K25011V

## Medium Voltage Cell Switches

| Code    | Contact Type | Terminal Type | Box/Pcs |
|---------|--------------|---------------|---------|
| K25001T | 2 NC, 1 NO   | 6 Terminals   | 10      |
| K25001V | 2 NC, 1 NO   | 6 Screws      | 10      |
| K25011T | 1 NC, 2 NO   | 6 Terminals   | 10      |
| K25011V | 1 NC, 2 NO   | 6 Screws      | 10      |



A12B1H10



A12B1K11



A12B1S11



A12B1Y11 (3)



A12W1K11



A14B1K11



A21B1H10



A21B1S11



A21B1K11



A54B1H10



A54B1Y11



A71B1K11



A71B1Y11



A71B1S11



EK1



EK2



PTM110



PTM111



PHE110



PTM122

## Illuminated Rocker Switch

| Code      | Housing Type | Housing Colour | Feature              | Contact Type | Plate | Button Colour | Cable Connection           | Box/Pcs |
|-----------|--------------|----------------|----------------------|--------------|-------|---------------|----------------------------|---------|
| A12B1H10  | 30*22mm      | Black          | WO/Illumination      | 1NO + 1NO    | 0-1   | H             | Terminal                   | 50      |
| A12B1K11  | 30*22mm      | Black          | W/Illumination       | 1NO + 1NO    | 0-1   | K             | Terminal                   | 50      |
| A12B1S11  | 30*22mm      | Black          | W/Illumination       | 1NO + 1NO    | 0-1   | S             | Terminal                   | 50      |
| A12B1Y11  | 30*22mm      | Black          | W/Illumination       | 1NO + 1NO    | 0-1   | Y             | Terminal                   | 50      |
| A12B5H10  | 30*22mm      | Black          | WO/Illumination      | 1NO + 1NO    | 0-1   | H             | Bridge                     | 50      |
| A12B5K11  | 30*22mm      | Black          | W/Illumination       | 1NO + 1NO    | 0-1   | K             | Bridge                     | 50      |
| A12B5S11  | 30*22mm      | Black          | W/Illumination       | 1NO + 1NO    | 0-1   | S             | Bridge                     | 50      |
| A12B5Y11  | 30*22mm      | Black          | W/Illumination       | 1NO + 1NO    | 0-1   | Y             | Bridge                     | 50      |
| A12W1H10  | 30*22mm      | White          | WO/Illumination      | 1NO + 1NO    | 0-1   | H             | Terminal                   | 50      |
| A12W1K11  | 30*22mm      | White          | W/Illumination       | 1NO + 1NO    | 0-1   | K             | Terminal                   | 50      |
| A12W1S11  | 30*22mm      | White          | W/Illumination       | 1NO + 1NO    | 0-1   | S             | Terminal                   | 50      |
| A12W1Y11  | 30*22mm      | White          | W/Illumination       | 1NO + 1NO    | 0-1   | Y             | Terminal                   | 50      |
| A14B1H10  | 30*22mm      | Black          | WO/Illumination      | 2NO          | 0-1   | H             | Terminal                   | 50      |
| A14B1K11  | 30*22mm      | Black          | W/Illumination       | 2NO          | 0-1   | K             | Terminal                   | 50      |
| A14B1S11  | 30*22mm      | Black          | W/Illumination       | 2NO          | 0-1   | S             | Terminal                   | 50      |
| A14B1Y11  | 30*22mm      | Black          | W/Illumination       | 2NO          | 0-1   | Y             | Terminal                   | 50      |
| A14B4H10  | 30*22mm      | Black          | WO/Illumination      | 2NO          | 0-1   | H             | Screw                      | 50      |
| A14B4K11  | 30*22mm      | Black          | W/Illumination       | 2NO          | 0-1   | K             | Screw                      | 50      |
| A14B4S11  | 30*22mm      | Black          | W/Illumination       | 2NO          | 0-1   | S             | Screw                      | 50      |
| A14B4Y11  | 30*22mm      | Black          | W/Illumination       | 2NO          | 0-1   | Y             | Screw                      | 50      |
| A14B5H10  | 30*22mm      | Black          | WO/Illumination      | 2NO          | 0-1   | H             | Bridge                     | 50      |
| A14B5K11  | 30*22mm      | Black          | W/Illumination       | 2NO          | 0-1   | K             | Bridge                     | 50      |
| A14B5S11  | 30*22mm      | Black          | W/Illumination       | 2NO          | 0-1   | S             | Bridge                     | 50      |
| A14B5Y11  | 30*22mm      | Black          | W/Illumination       | 2NO          | 0-1   | Y             | Bridge                     | 50      |
| A14B6H10  | 30*22mm      | Black          | WO/Illumination      | 2NO          | 0-1   | H             | Protected Screw            | 50      |
| A14B6K11  | 30*22mm      | Black          | W/Illumination       | 2NO          | 0-1   | K             | Protected Screw            | 50      |
| A14B6S11  | 30*22mm      | Black          | W/Illumination       | 2NO          | 0-1   | S             | Protected Screw            | 50      |
| A14B6Y11  | 30*22mm      | Black          | W/Illumination       | 2NO          | 0-1   | Y             | Protected Screw            | 50      |
| A14W1K11  | 30*22mm      | White          | W/Illumination       | 2NO          | 0-1   | K             | Terminal                   | 50      |
| A14W1S11  | 30*22mm      | White          | W/Illumination       | 2NO          | 0-1   | S             | Terminal                   | 50      |
| A14W1Y11  | 30*22mm      | White          | W/Illumination       | 2NO          | 0-1   | Y             | Terminal                   | 50      |
| A14W1BP1K | 30*22mm      | White          | W/Illumination/ Lens | 2NO          | 0-1   | B             | Terminal                   | 50      |
| A21B1H10  | 30*11mm      | Black          | WO/Illumination      | 1NO          | 0-1   | H             | Terminal                   | 50      |
| A21B1K11  | 30*11mm      | Black          | W/Illumination       | 1NO          | 0-1   | K             | Terminal                   | 50      |
| A21B1S11  | 30*11mm      | Black          | W/Illumination       | 1NO          | 0-1   | S             | Terminal                   | 50      |
| A21B1Y11  | 30*11mm      | Black          | W/Illumination       | 1NO          | 0-1   | Y             | Terminal                   | 50      |
| A21W1K11  | 30*11mm      | White          | W/Illumination       | 1NO          | 0-1   | K             | Terminal                   | 50      |
| A21W1S11  | 30*11mm      | White          | W/Illumination       | 1NO          | 0-1   | S             | Terminal                   | 50      |
| A21W1Y11  | 30*11mm      | White          | W/Illumination       | 1NO          | 0-1   | Y             | Terminal                   | 50      |
| A44B1HX1  | 20*13mm      | Black          | W/Illumination       | 2NO          | -     | -             | Terminal                   | 50      |
| A44B9HX1  | 20*13mm      | Black          | W/Illumination       | 2NO          | -     | -             | Terminal + Protected Screw | 50      |
| A54B1H10* | 30*22mm      | Black          | WO/Illumination IP65 | 2NO          | 0-1   | H             | Terminal                   | 50      |
| A54B1K11* | 30*22mm      | Black          | W/Illumination IP65  | 2NO          | 0-1   | K             | Terminal                   | 50      |
| A54B1S11* | 30*22mm      | Black          | W/Illumination IP65  | 2NO          | 0-1   | S             | Terminal                   | 50      |
| A54B1Y11* | 30*22mm      | Black          | W/Illumination IP65  | 2NO          | 0-1   | Y             | Terminal                   | 50      |
| A71B1H10  | Dia 22mm     | Black          | WO/Illumination      | 1NO          | 0-1   | H             | Terminal                   | 50      |
| A71B1K11  | Dia 22mm     | Black          | W/Illumination       | 1NO          | 0-1   | K             | Terminal                   | 50      |
| A71B1S11  | Dia 22mm     | Black          | W/Illumination       | 1NO          | 0-1   | -             | Terminal                   | 50      |
| A71B1Y11  | Dia 22mm     | Black          | W/Illumination       | 1NO          | 0-1   | Y             | Terminal                   | 50      |

\* When will be written 25 instead of \* it will be 25A.

| Code | Type                | Box/Pcs |
|------|---------------------|---------|
| EK1  | Silicon Cover, Slim | 100     |
| EK2  | Silicon Cover, Wide | 100     |

## Panel Thermostats

| Code    | Operation                          | Feature & Type                    | Contact                            | Box/Pcs |
|---------|------------------------------------|-----------------------------------|------------------------------------|---------|
| PTM110  | Mechanical                         | Thermostat (Panel Type)           | NC (Heating-Red)                   | 1       |
| PTM111  | Mechanical                         | Thermostat (Panel Type)           | NO (Cooling-Blue)                  | 1       |
| PTM122  | Mechanical                         | Thermostat (Panel Type)           | NC (Heating-Red)+NO (Cooling-Blue) | 1       |
| PTE110  | Electronic                         | Thermostat (Panel Type)           | NC                                 | 1       |
| PTE111  | Electronic                         | Thermostat (Panel Type)           | NO                                 | 1       |
| PHTE124 | Analogue (Digital Sensor Included) | Thermostat+Hygrostat (Panel Type) | 1 CO                               | 1       |
| PHE110  | Electronic                         | Hygrostat (Panel Type)            | NC                                 | 1       |
| PHE111  | Electronic                         | Hygrostat (Panel Type)            | NO                                 | 1       |



PSA050AK331S+PSPK0501



PSK21



PSA010AK131SAQ



PSA020OK723S



PSA020KS127S



PSA020AK231K



PSA020KD333S



PSA020MS335S



PSPK0501



PSR2

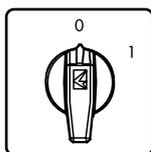


PSA020KD334S



PSA010AK141EQ

# Rotary Cam Switches

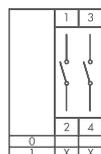


## "0-1" On-Off Cam Switches - 60°

| Code         | Poles  | Rated Thermal Current (A) | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|--------|---------------------------|-----------|--------------|--------------------|--|----------------------------|
| PSA010AK131S | 1 Pole | 10                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016AK131S | 1 Pole | 16                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020AK131S | 1 Pole | 20                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025AK131S | 1 Pole | 25                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA032AK131S | 1 Pole | 32                        | PSK21     |              |                    |  |                            |
| PSA040AK131S | 1 Pole | 40                        | PSK21     |              |                    |  |                            |
| PSA050AK131S | 1 Pole | 50                        | PSK31     |              |                    |  |                            |
| PSA063AK131S | 1 Pole | 63                        | PSK31     |              |                    |  |                            |
| PSA080AK131S | 1 Pole | 80                        | -         |              |                    |  |                            |
| PSA120AK131S | 1 Pole | 120                       | -         |              |                    |  |                            |

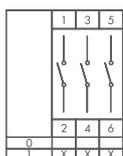


PSA020AK131S



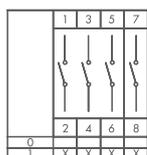
PSA020AK231S

|              |         |     |       |   |   |   |   |
|--------------|---------|-----|-------|---|---|---|---|
| PSA010AK231S | 2 Poles | 10  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA016AK231S | 2 Poles | 16  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA020AK231S | 2 Poles | 20  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA025AK231S | 2 Poles | 25  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA032AK231S | 2 Poles | 32  | PSK21 |   |   |   |   |
| PSA040AK231S | 2 Poles | 40  | PSK21 |   |   |   |   |
| PSA050AK231S | 2 Poles | 50  | PSK31 |   |   |   |   |
| PSA063AK231S | 2 Poles | 63  | PSK31 |   |   |   |   |
| PSA080AK231S | 2 Poles | 80  | -     |   |   |   |   |
| PSA120AK231S | 2 Poles | 120 | -     |   |   |   |   |



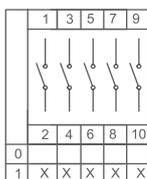
PSA020AK331S

|              |         |     |       |   |   |   |   |
|--------------|---------|-----|-------|---|---|---|---|
| PSA010AK331S | 3 Poles | 10  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA016AK331S | 3 Poles | 16  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA020AK331S | 3 Poles | 20  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA025AK331S | 3 Poles | 25  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA032AK331S | 3 Poles | 32  | PSK21 |   |   |   |   |
| PSA040AK331S | 3 Poles | 40  | PSK21 |   |   |   |   |
| PSA050AK331S | 3 Poles | 50  | PSK31 |   |   |   |   |
| PSA063AK331S | 3 Poles | 63  | PSK31 |   |   |   |   |
| PSA080AK331S | 3 Poles | 80  | -     |   |   |   |   |
| PSA120AK331S | 3 Poles | 120 | -     |   |   |   |   |



PSA020AK431S

|              |         |     |       |   |   |   |   |
|--------------|---------|-----|-------|---|---|---|---|
| PSA010AK431S | 4 Poles | 10  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA016AK431S | 4 Poles | 16  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA020AK431S | 4 Poles | 20  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA025AK431S | 4 Poles | 25  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA032AK431S | 4 Poles | 32  | PSK21 |   |   |   |   |
| PSA040AK431S | 4 Poles | 40  | PSK21 |   |   |   |   |
| PSA050AK431S | 4 Poles | 50  | PSK31 |   |   |   |   |
| PSA063AK431S | 4 Poles | 63  | PSK31 |   |   |   |   |
| PSA080AK431S | 4 Poles | 80  | -     |   |   |   |   |
| PSA120AK431S | 4 Poles | 120 | -     |   |   |   |   |



|              |         |     |       |   |   |   |   |
|--------------|---------|-----|-------|---|---|---|---|
| PSA010AK531S | 5 Poles | 10  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA016AK531S | 5 Poles | 16  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA020AK531S | 5 Poles | 20  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA025AK531S | 5 Poles | 25  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA032AK531S | 5 Poles | 32  | PSK22 |   |   |   |   |
| PSA040AK531S | 5 Poles | 40  | PSK22 |   |   |   |   |
| PSA050AK531S | 5 Poles | 50  |       |   |   |   |   |
| PSA063AK531S | 5 Poles | 63  |       |   |   |   |   |
| PSA080AK531S | 5 Poles | 80  |       |   |   |   |   |
| PSA120AK531S | 5 Poles | 120 |       |   |   |   |   |

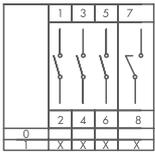
\* Can be supplied with Red-Yellow head w/o extra charge, in this case please replace "S" at the end with "E".

\*\* 10-25A Cam Switches can be supplied with big frame (64 x 64) with extra charge, In this case please replace the "S" at the end with "B".

\*\*\* Please replace "S" letter at the end of the code with "SAQ" for Key Operated & Quick Installation With Plate Model (with extra charge)

\*\*\*\* Please replace "S" letter at the end of the code with "K" for Lockable Handle model (with extra charge)

\*\*\*\*\* Please replace "S" letter at the end of the code with "SQ" for Quick Installation model (with extra charge)



PSA020AK831S

## "0-1" On-Off Cam Switches - 60°

| Code         | Poles           | Rated Thermal Current (A) | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|-----------------|---------------------------|-----------|--------------|--------------------|--|----------------------------|
| PSA010AK831S | 3 Poles+Neutral | 10                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016AK831S | 3 Poles+Neutral | 16                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020AK831S | 3 Poles+Neutral | 20                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025AK831S | 3 Poles+Neutral | 25                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA032AK831S | 3 Poles+Neutral | 32                        | PSK21     |              |                    |  |                            |
| PSA040AK831S | 3 Poles+Neutral | 40                        | PSK21     |              |                    |  |                            |
| PSA050AK831S | 3 Poles+Neutral | 50                        | PSK31     |              |                    |  |                            |
| PSA063AK831S | 3 Poles+Neutral | 63                        | PSK31     |              |                    |  |                            |
| PSA080AK831S | 3 Poles+Neutral | 80                        | -         |              |                    |  |                            |
| PSA120AK831S | 3 Poles+Neutral | 120                       | -         |              |                    |  |                            |

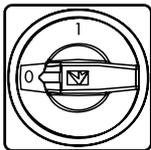
\* Can be supplied with Red-Yellow head w/o extra charge, in this case please replace "S" at the end with "E".

\*\* 10-25A Cam Switches can be supplied with big frame (64 x 64) with extra charge, In this case please replace the "S" at the end with "B".

\*\*\* Please replace "S" letter at the end of the code with "SAQ" for Key Operated & Quick Installation With Plate Model (with extra charge)

\*\*\*\* Please replace "S" letter at the end of the code with "K" for Lockable Handle model (with extra charge)

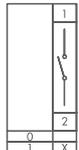
\*\*\*\*\* Please replace "S" letter at the end of the code with "SQ" for Quick Installation model (with extra charge)



PSA020AK141E

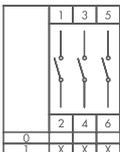
## "0-1" Safety On-Off Cam Switches - 90°

| Code         | Poles  | Rated Thermal Current (A) | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|--------|---------------------------|-----------|--------------|--------------------|--|----------------------------|
| PSA010AK141E | 1 Pole | 10                        | PSK11     |              | ✓                  |  | ✓                          |
| PSA016AK141E | 1 Pole | 16                        | PSK11     |              | ✓                  |  | ✓                          |
| PSA020AK141E | 1 Pole | 20                        | PSK11     |              | ✓                  |  | ✓                          |
| PSA025AK141E | 1 Pole | 25                        | PSK11     |              | ✓                  |  | ✓                          |
| PSA032AK141E | 1 Pole | 32                        | PSK21     |              |                    |  |                            |
| PSA040AK141E | 1 Pole | 40                        | PSK21     |              |                    |  |                            |
| PSA050AK141E | 1 Pole | 50                        | PSK31     |              |                    |  |                            |
| PSA063AK141E | 1 Pole | 63                        | PSK31     |              |                    |  |                            |
| PSA080AK141E | 1 Pole | 80                        | -         |              |                    |  |                            |
| PSA120AK141E | 1 Pole | 120                       | -         |              |                    |  |                            |



PSA020AK241E

|              |         |     |       |  |   |  |   |
|--------------|---------|-----|-------|--|---|--|---|
| PSA010AK241E | 2 Poles | 10  | PSK11 |  | ✓ |  | ✓ |
| PSA016AK241E | 2 Poles | 16  | PSK11 |  | ✓ |  | ✓ |
| PSA020AK241E | 2 Poles | 20  | PSK11 |  | ✓ |  | ✓ |
| PSA025AK241E | 2 Poles | 25  | PSK11 |  | ✓ |  | ✓ |
| PSA032AK241E | 2 Poles | 32  | PSK21 |  |   |  |   |
| PSA040AK241E | 2 Poles | 40  | PSK21 |  |   |  |   |
| PSA050AK241E | 2 Poles | 50  | PSK31 |  |   |  |   |
| PSA063AK241E | 2 Poles | 63  | PSK31 |  |   |  |   |
| PSA080AK241E | 2 Poles | 80  | -     |  |   |  |   |
| PSA120AK241E | 2 Poles | 120 | -     |  |   |  |   |

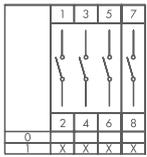


PSA020AK341E

|              |         |     |       |  |   |  |   |
|--------------|---------|-----|-------|--|---|--|---|
| PSA010AK341E | 3 Poles | 10  | PSK11 |  | ✓ |  | ✓ |
| PSA016AK341E | 3 Poles | 16  | PSK11 |  | ✓ |  | ✓ |
| PSA020AK341E | 3 Poles | 20  | PSK11 |  | ✓ |  | ✓ |
| PSA025AK341E | 3 Poles | 25  | PSK11 |  | ✓ |  | ✓ |
| PSA032AK341E | 3 Poles | 32  | PSK21 |  |   |  |   |
| PSA040AK341E | 3 Poles | 40  | PSK21 |  |   |  |   |
| PSA050AK341E | 3 Poles | 50  | PSK31 |  |   |  |   |
| PSA063AK341E | 3 Poles | 63  | PSK31 |  |   |  |   |
| PSA080AK341E | 3 Poles | 80  | -     |  |   |  |   |
| PSA120AK341E | 3 Poles | 120 | -     |  |   |  |   |

\* 10-25A Cam Switches can be supplied with big frame (64 x 64) with extra charge, In this case please replace the "F" at the end with "E".

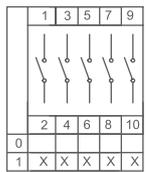
\*\* Please replace "E" letter at the end of the code with "EQ" for Quick Installation model (with extra charge)



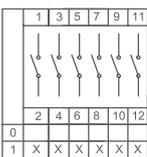
PSA020AK441E

## "0-1" Safety On-Off Cam Switches - 90°

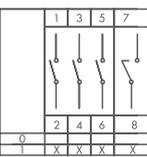
| Code         | Poles   | Rated Thermal Current (A) | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|---------|---------------------------|-----------|--------------|--------------------|--|----------------------------|
| PSA010AK441E | 4 Poles | 10                        | PSK11     |              | ✓                  |  | ✓                          |
| PSA016AK441E | 4 Poles | 16                        | PSK11     |              | ✓                  |  | ✓                          |
| PSA020AK441E | 4 Poles | 20                        | PSK11     |              | ✓                  |  | ✓                          |
| PSA025AK441E | 4 Poles | 25                        | PSK11     |              | ✓                  |  | ✓                          |
| PSA032AK441E | 4 Poles | 32                        | PSK21     |              |                    |  |                            |
| PSA040AK441E | 4 Poles | 40                        | PSK21     |              |                    |  |                            |
| PSA050AK441E | 4 Poles | 50                        | PSK31     |              |                    |  |                            |
| PSA063AK441E | 4 Poles | 63                        | PSK31     |              |                    |  |                            |
| PSA080AK441E | 4 Poles | 80                        | -         |              |                    |  |                            |
| PSA120AK441E | 4 Poles | 120                       | -         |              |                    |  |                            |



|              |         |     |       |  |   |  |   |
|--------------|---------|-----|-------|--|---|--|---|
| PSA010AK541E | 5 Poles | 10  | PSK12 |  | ✓ |  | ✓ |
| PSA016AK541E | 5 Poles | 16  | PSK12 |  | ✓ |  | ✓ |
| PSA020AK541E | 5 Poles | 20  | PSK12 |  | ✓ |  | ✓ |
| PSA025AK541E | 5 Poles | 25  | PSK12 |  | ✓ |  | ✓ |
| PSA032AK541E | 5 Poles | 32  | PSK22 |  |   |  |   |
| PSA040AK541E | 5 Poles | 40  | PSK22 |  |   |  |   |
| PSA050AK541E | 5 Poles | 50  |       |  |   |  |   |
| PSA063AK541E | 5 Poles | 63  |       |  |   |  |   |
| PSA080AK541E | 5 Poles | 80  |       |  |   |  |   |
| PSA120AK541E | 5 Poles | 120 |       |  |   |  |   |



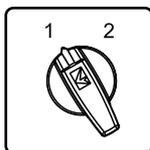
|              |         |     |       |  |   |  |   |
|--------------|---------|-----|-------|--|---|--|---|
| PSA010AK641E | 6 Poles | 10  | PSK12 |  | ✓ |  | ✓ |
| PSA016AK641E | 6 Poles | 16  | PSK12 |  | ✓ |  | ✓ |
| PSA020AK641E | 6 Poles | 20  | PSK12 |  | ✓ |  | ✓ |
| PSA025AK641E | 6 Poles | 25  | PSK12 |  | ✓ |  | ✓ |
| PSA032AK641E | 6 Poles | 32  | PSK22 |  |   |  |   |
| PSA040AK641E | 6 Poles | 40  | PSK22 |  |   |  |   |
| PSA050AK641E | 6 Poles | 50  |       |  |   |  |   |
| PSA063AK641E | 6 Poles | 63  |       |  |   |  |   |
| PSA080AK641E | 6 Poles | 80  |       |  |   |  |   |
| PSA120AK641E | 6 Poles | 120 |       |  |   |  |   |



PSA020AK941E

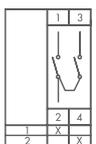
|              |                 |     |       |  |   |  |   |
|--------------|-----------------|-----|-------|--|---|--|---|
| PSA010AK941E | 3 Poles+Neutral | 10  | PSK11 |  | ✓ |  | ✓ |
| PSA016AK941E | 3 Poles+Neutral | 16  | PSK11 |  | ✓ |  | ✓ |
| PSA020AK941E | 3 Poles+Neutral | 20  | PSK11 |  | ✓ |  | ✓ |
| PSA025AK941E | 3 Poles+Neutral | 25  | PSK11 |  | ✓ |  | ✓ |
| PSA032AK941E | 3 Poles+Neutral | 32  | PSK21 |  |   |  |   |
| PSA040AK941E | 3 Poles+Neutral | 40  | PSK21 |  |   |  |   |
| PSA050AK941E | 3 Poles+Neutral | 50  | PSK31 |  |   |  |   |
| PSA063AK941E | 3 Poles+Neutral | 63  | PSK31 |  |   |  |   |
| PSA080AK941E | 3 Poles+Neutral | 80  | -     |  |   |  |   |
| PSA120AK941E | 3 Poles+Neutral | 120 | -     |  |   |  |   |

· 10-25A Cam Switches can be supplied with big frame (64 x 64) with extra charge, in this case please replace the "E" at the end with "F"  
 · Please replace "E" letter at the end of the code with "EQ" for Quick Installation model (with extra charge)



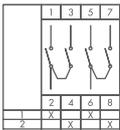
## 1-2 Changeover Cam Switches - 60°

| Code         | Poles  | Rated Thermal Current (A) | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|--------|---------------------------|-----------|--------------|--------------------|--|----------------------------|
| PSA010KD133S | 1 Pole | 10                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016KD133S | 1 Pole | 16                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020KD133S | 1 Pole | 20                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025KD133S | 1 Pole | 25                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA032KD133S | 1 Pole | 32                        | PSK21     |              |                    |  |                            |
| PSA040KD133S | 1 Pole | 40                        | PSK21     |              |                    |  |                            |
| PSA050KD133S | 1 Pole | 50                        | PSK31     |              |                    |  |                            |
| PSA063KD133S | 1 Pole | 63                        | PSK31     |              |                    |  |                            |
| PSA080KD133S | 1 Pole | 80                        | -         |              |                    |  |                            |
| PSA120KD133S | 1 Pole | 120                       | -         |              |                    |  |                            |



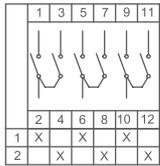
PSA020KD133S

\* Can be supplied with Red-Yellow head w/o extra charge, in this case please replace "S" at the end with "E".  
 \*\* 10-25A Cam Switches can be supplied with big frame (64 x 64) with extra charge, In this case please replace the "S" at the end with "B"  
 \*\*\* Please replace "S" letter at the end of the code with "SAQ" for Key Operated & Quick Installation With Plate Model (with extra charge)  
 \*\*\*\* Please replace "S" letter at the end of the code with "K" for Lockable Handle model (with extra charge)  
 \*\*\*\*\* Please replace "S" letter at the end of the code with "SQ" for Quick Installation model (with extra charge)



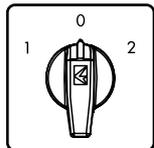
## "1-2" Changeover Cam Switches - 60°

| Code         | Poles   | Rated Thermal Current (A) | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|---------|---------------------------|-----------|--------------|--------------------|--|----------------------------|
| PSA010KD233S | 2 Poles | 10                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016KD233S | 2 Poles | 16                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020KD233S | 2 Poles | 20                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025KD233S | 2 Poles | 25                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA032KD233S | 2 Poles | 32                        | PSK31     |              |                    |  |                            |
| PSA040KD233S | 2 Poles | 40                        | PSK31     |              |                    |  |                            |
| PSA050KD233S | 2 Poles | 50                        | -         |              |                    |  |                            |
| PSA063KD233S | 2 Poles | 63                        | -         |              |                    |  |                            |
| PSA080KD233S | 2 Poles | 80                        | -         |              |                    |  |                            |
| PSA120KD233S | 2 Poles | 120                       | -         |              |                    |  |                            |

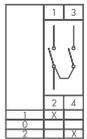


PSA020KD333S

|              |         |     |       |   |   |   |   |
|--------------|---------|-----|-------|---|---|---|---|
| PSA010KD333S | 3 Poles | 10  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA016KD333S | 3 Poles | 16  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA020KD333S | 3 Poles | 20  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA025KD333S | 3 Poles | 25  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA032KD333S | 3 Poles | 32  | PSK31 |   |   |   |   |
| PSA040KD333S | 3 Poles | 40  | PSK31 |   |   |   |   |
| PSA050KD333S | 3 Poles | 50  | -     |   |   |   |   |
| PSA063KD333S | 3 Poles | 63  | -     |   |   |   |   |
| PSA080KD333S | 3 Poles | 80  | -     |   |   |   |   |
| PSA120KD333S | 3 Poles | 120 | -     |   |   |   |   |

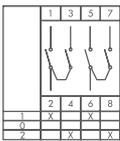


## "1-0-2" Changeover Cam Switches - 60°



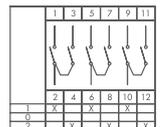
PSA020KD134S

| Code         | Poles  | Rated Thermal Current (A) | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|--------|---------------------------|-----------|--------------|--------------------|--|----------------------------|
| PSA010KD134S | 1 Pole | 10                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016KD134S | 1 Pole | 16                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020KD134S | 1 Pole | 20                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025KD134S | 1 Pole | 25                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA032KD134S | 1 Pole | 32                        | PSK21     |              |                    |  |                            |
| PSA040KD134S | 1 Pole | 40                        | PSK21     |              |                    |  |                            |
| PSA050KD134S | 1 Pole | 50                        | PSK31     |              |                    |  |                            |
| PSA063KD134S | 1 Pole | 63                        | PSK31     |              |                    |  |                            |
| PSA080KD134S | 1 Pole | 80                        | -         |              |                    |  |                            |
| PSA120KD134S | 1 Pole | 120                       | -         |              |                    |  |                            |



PSA020KD234S

|              |         |     |       |   |   |   |   |
|--------------|---------|-----|-------|---|---|---|---|
| PSA010KD234S | 2 Poles | 10  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA016KD234S | 2 Poles | 16  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA020KD234S | 2 Poles | 20  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA025KD234S | 2 Poles | 25  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA032KD234S | 2 Poles | 32  | PSK21 |   |   |   |   |
| PSA040KD234S | 2 Poles | 40  | PSK21 |   |   |   |   |
| PSA050KD234S | 2 Poles | 50  | PSK31 |   |   |   |   |
| PSA063KD234S | 2 Poles | 63  | PSK31 |   |   |   |   |
| PSA080KD234S | 2 Poles | 80  | -     |   |   |   |   |
| PSA120KD234S | 2 Poles | 120 | -     |   |   |   |   |



PSA020KD334S

|              |         |     |       |   |   |   |   |
|--------------|---------|-----|-------|---|---|---|---|
| PSA010KD334S | 3 Poles | 10  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA016KD334S | 3 Poles | 16  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA020KD334S | 3 Poles | 20  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA025KD334S | 3 Poles | 25  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA032KD334S | 3 Poles | 32  | PSK22 |   |   |   |   |
| PSA040KD334S | 3 Poles | 40  | PSK22 |   |   |   |   |
| PSA050KD334S | 3 Poles | 50  | -     |   |   |   |   |
| PSA063KD334S | 3 Poles | 63  | -     |   |   |   |   |
| PSA080KD334S | 3 Poles | 80  | -     |   |   |   |   |
| PSA120KD334S | 3 Poles | 120 | -     |   |   |   |   |

\* Can be supplied with Red-Yellow head w/o extra charge, in this case please replace "S" at the end with "E".

\*\* 10-25A Cam Switches can be supplied with big frame (64 x 64) with extra charge, In this case please replace the "S" at the end with "B"

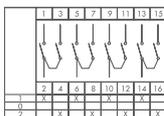
\*\*\* Please replace "S" letter at the end of the code with "SAQ" for Key Operated & Quick Installation With Plate Model (with extra charge)

\*\*\*\* Please replace "S" letter at the end of the code with "K" for Lockable Handle model (with extra charge)

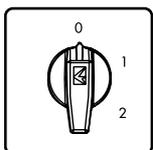
\*\*\*\*\* Please replace "S" letter at the end of the code with "SQ" for Quick Installation model (with extra charge)



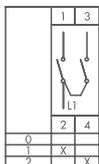
PSA020KD434S



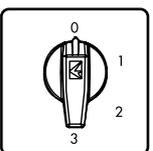
| Code         | Poles   | Rated Thermal Current (A) | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|---------|---------------------------|-----------|--------------|--------------------|--|----------------------------|
| PSA010KD434S | 4 Poles | 10                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016KD434S | 4 Poles | 16                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020KD434S | 4 Poles | 20                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025KD434S | 4 Poles | 25                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA032KD434S | 4 Poles | 32                        | PSK22     |              |                    |  |                            |
| PSA040KD434S | 4 Poles | 40                        | PSK22     |              |                    |  |                            |
| PSA050KD434S | 4 Poles | 50                        |           |              |                    |  |                            |
| PSA063KD434S | 4 Poles | 63                        |           |              |                    |  |                            |
| PSA080KD434S | 4 Poles | 80                        | -         |              |                    |  |                            |
| PSA120KD434S | 4 Poles | 120                       | -         |              |                    |  |                            |



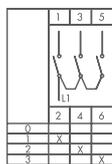
PSA020KS132S



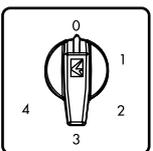
| <b>Step Cam Switches - 1 Pole</b> |       |                           |           |              |                    |  |                            |
|-----------------------------------|-------|---------------------------|-----------|--------------|--------------------|--|----------------------------|
| Code                              | Poles | Rated Thermal Current (A) | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
| PSA010KS132S                      | 0-1-2 | 10                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016KS132S                      | 0-1-2 | 16                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020KS132S                      | 0-1-2 | 20                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025KS132S                      | 0-1-2 | 25                        | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA032KS132S                      | 0-1-2 | 32                        | PSK21     |              |                    |  |                            |
| PSA040KS132S                      | 0-1-2 | 40                        | PSK21     |              |                    |  |                            |
| PSA050KS132S                      | 0-1-2 | 50                        | PSK31     |              |                    |  |                            |
| PSA063KS132S                      | 0-1-2 | 63                        | PSK31     |              |                    |  |                            |
| PSA080KS132S                      | 0-1-2 | 80                        | -         |              |                    |  |                            |
| PSA120KS132S                      | 0-1-2 | 120                       | -         |              |                    |  |                            |



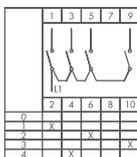
PSA020KS133S



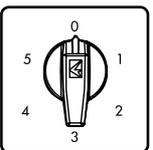
|              |     |     |       |   |   |   |   |
|--------------|-----|-----|-------|---|---|---|---|
| PSA010KS133S | 0-3 | 10  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA016KS133S | 0-3 | 16  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA020KS133S | 0-3 | 20  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA025KS133S | 0-3 | 25  | PSK11 | ✓ | ✓ | ✓ | ✓ |
| PSA032KS133S | 0-3 | 32  | PSK21 |   |   |   |   |
| PSA040KS133S | 0-3 | 40  | PSK21 |   |   |   |   |
| PSA050KS133S | 0-3 | 50  | PSK31 |   |   |   |   |
| PSA063KS133S | 0-3 | 63  | PSK32 |   |   |   |   |
| PSA080KS133S | 0-3 | 80  | -     |   |   |   |   |
| PSA120KS133S | 0-3 | 120 | -     |   |   |   |   |



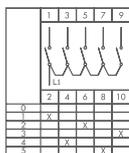
PSA020KS134S



|              |     |     |       |   |   |   |   |
|--------------|-----|-----|-------|---|---|---|---|
| PSA010KS134S | 0-4 | 10  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA016KS134S | 0-4 | 16  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA020KS134S | 0-4 | 20  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA025KS134S | 0-4 | 25  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA032KS134S | 0-4 | 32  | PSK22 |   |   |   |   |
| PSA040KS134S | 0-4 | 40  | PSK22 |   |   |   |   |
| PSA050KS134S | 0-4 | 50  | PSK32 |   |   |   |   |
| PSA063KS134S | 0-4 | 63  | PSK32 |   |   |   |   |
| PSA080KS134S | 0-4 | 80  | -     |   |   |   |   |
| PSA120KS134S | 0-4 | 120 | -     |   |   |   |   |



PSA020KS135S



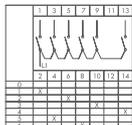
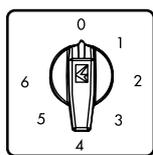
|              |     |     |       |   |   |   |   |
|--------------|-----|-----|-------|---|---|---|---|
| PSA010KS135S | 0-5 | 10  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA016KS135S | 0-5 | 16  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA020KS135S | 0-5 | 20  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA025KS135S | 0-5 | 25  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA032KS135S | 0-5 | 32  | PSK22 |   |   |   |   |
| PSA040KS135S | 0-5 | 40  | PSK22 |   |   |   |   |
| PSA050KS135S | 0-5 | 50  |       |   |   |   |   |
| PSA063KS135S | 0-5 | 63  |       |   |   |   |   |
| PSA080KS135S | 0-5 | 80  | -     |   |   |   |   |
| PSA120KS135S | 0-5 | 120 | -     |   |   |   |   |

\* Can be supplied with Red-Yellow head w/o extra charge, in this case please replace "S" at the end with "E".

\*\* 10-25A Cam Switches can be supplied with big frame (64 x 64) with extra charge, In this case please replace the "S" at the end with "B"

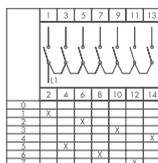
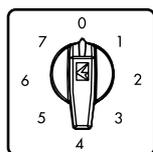
\*\*\*Please replace "S" letter at the end of the code with "SAQ" for Key Operated & Quick Installation With Plate Model (with extra charge)

\*\*\*\* Please replace "S" letter at the end of the code with "SQ" for Quick Installation model (with extra charge)



PSA020KS126S

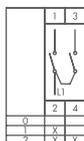
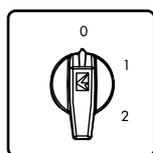
| Code         | Poles | Rated Thermal Current (A) | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|-------|---------------------------|-----------|--------------|--------------------|--|----------------------------|
| PSA010KS126S | 0-6   | 10                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016KS126S | 0-6   | 16                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020KS126S | 0-6   | 20                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025KS126S | 0-6   | 25                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA032KS126S | 0-6   | 32                        | PSK22     |              |                    |  |                            |
| PSA040KS126S | 0-6   | 40                        | PSK22     |              |                    |  |                            |
| PSA050KS126S | 0-6   | 50                        | -         |              |                    |  |                            |
| PSA063KS126S | 0-6   | 63                        | -         |              |                    |  |                            |
| PSA080KS126S | 0-6   | 80                        | -         |              |                    |  |                            |
| PSA120KS126S | 0-6   | 120                       | -         |              |                    |  |                            |



PSA020KS127S

|              |     |     |       |   |   |   |   |
|--------------|-----|-----|-------|---|---|---|---|
| PSA010KS127S | 0-7 | 10  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA016KS127S | 0-7 | 16  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA020KS127S | 0-7 | 20  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA025KS127S | 0-7 | 25  | PSK12 | ✓ | ✓ | ✓ | ✓ |
| PSA032KS127S | 0-7 | 32  | PSK22 |   |   |   |   |
| PSA040KS127S | 0-7 | 40  | PSK22 |   |   |   |   |
| PSA050KS127S | 0-7 | 50  | -     |   |   |   |   |
| PSA063KS127S | 0-7 | 63  | -     |   |   |   |   |
| PSA080KS127S | 0-7 | 80  | -     |   |   |   |   |
| PSA120KS127S | 0-7 | 120 | -     |   |   |   |   |

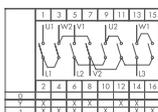
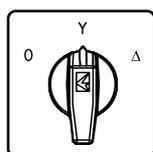
### Step Cam Switches - 60°



PSA020KT132S

| Code         | Poles   | Rated Thermal Current (A) | Steps | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|---------|---------------------------|-------|-----------|--------------|--------------------|--|----------------------------|
| PSA010KT132S | 1 Pole  | 10                        | 0-1-2 | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016KT132S | 1 Pole  | 16                        | 0-1-2 | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020KT132S | 1 Pole  | 20                        | 0-1-2 | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025KT132S | 1 Pole  | 25                        | 0-1-2 | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA010KT332S | 3 Poles | 10                        | 0-1-2 | PSK12     | ✓            |                    |  |                            |
| PSA016KT332S | 3 Poles | 16                        | 0-1-2 | PSK12     | ✓            |                    |  |                            |

### Star-Delta Cam Switches - 60°



PSA020MS335S

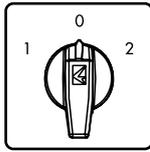
| Code         | Poles   | Rated Thermal Current (A) | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|---------|---------------------------|-----------|--------------|--------------------|--|----------------------------|
| PSA010MS335S | 3 Phase | 10                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016MS335S | 3 Phase | 16                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020MS335S | 3 Phase | 20                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025MS335S | 3 Phase | 25                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA032MS335S | 3 Phase | 32                        | PSK22     |              |                    |  |                            |
| PSA040MS335S | 3 Phase | 40                        | PSK22     |              |                    |  |                            |
| PSA050MS335S | 3 Phase | 50                        | -         |              |                    |  |                            |
| PSA063MS335S | 3 Phase | 63                        | -         |              |                    |  |                            |
| PSA080MS335S | 3 Phase | 80                        | -         |              |                    |  |                            |
| PSA120MS335S | 3 Phase | 120                       | -         |              |                    |  |                            |

\* Can be supplied with Red-Yellow head w/o extra charge, in this case please replace "S" at the end with "E".

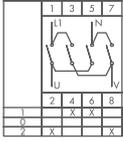
\*\* 10-25A Cam Switches can be supplied with big frame (64 x 64) with extra charge, In this case please replace the "S" at the end with "B"

\*\*\*Please replace "S" letter at the end of the code with "SAQ" for Key Operated & Quick Installation With Plate Model (with extra charge)

\*\*\*\* Please replace "S" letter at the end of the code with "SQ" for Quick Installation model (with extra charge)

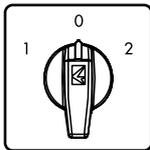


## 1 Pole Change Over Cam Switches "1-0-2"

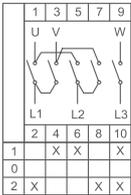


PSA020MS134S

| Code         | Poles   | Rated Thermal Current (A) | Steps | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|---------|---------------------------|-------|-----------|--------------|--------------------|--|----------------------------|
| PSA010MS134S | 1 Phase | 10                        | 1-0-2 | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016MS134S | 1 Phase | 16                        | 1-0-2 | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020MS134S | 1 Phase | 20                        | 1-0-2 | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025MS134S | 1 Phase | 25                        | 1-0-2 | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA032MS134S | 1 Phase | 32                        | 1-0-2 | PSK21     |              |                    |  |                            |
| PSA040MS134S | 1 Phase | 40                        | 1-0-2 | PSK21     |              |                    |  |                            |
| PSA050MS134S | 1 Phase | 50                        | 1-0-2 | PSK31     |              |                    |  |                            |
| PSA063MS134S | 1 Phase | 63                        | 1-0-2 | PSK31     |              |                    |  |                            |
| PSA080MS134S | 1 Phase | 80                        | 1-0-2 | -         |              |                    |  |                            |
| PSA120MS134S | 1 Phase | 120                       | 1-0-2 | -         |              |                    |  |                            |

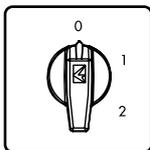


## 3 Poles Change Over Cam Switches "1-0-2"

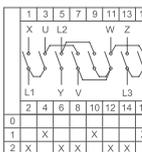


PSA020MS334S

| Code         | Poles   | Rated Thermal Current (A) | Steps | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|---------|---------------------------|-------|-----------|--------------|--------------------|--|----------------------------|
| PSA010MS334S | 3 Phase | 10                        | 1-0-2 | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016MS334S | 3 Phase | 16                        | 1-0-2 | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020MS334S | 3 Phase | 20                        | 1-0-2 | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025MS334S | 3 Phase | 25                        | 1-0-2 | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA032MS334S | 3 Phase | 32                        | 1-0-2 | PSK22     |              |                    |  |                            |
| PSA040MS334S | 3 Phase | 40                        | 1-0-2 | PSK22     |              |                    |  |                            |
| PSA050MS334S | 3 Phase | 50                        | 1-0-2 | PSK32     |              |                    |  |                            |
| PSA063MS334S | 3 Phase | 63                        | 1-0-2 | PSK32     |              |                    |  |                            |
| PSA080MS334S | 3 Phase | 80                        | 1-0-2 | -         |              |                    |  |                            |
| PSA120MS334S | 3 Phase | 120                       | 1-0-2 | -         |              |                    |  |                            |

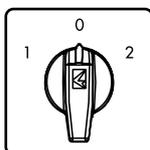


## 3 Phase Double Cycle Cam Switches (0-1-2)

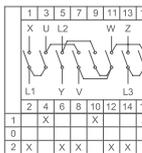


PSA016CD332S

| Code         | Poles   | Rated Thermal Current (A) | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|---------|---------------------------|-----------|--------------|--------------------|--|----------------------------|
| PSA010CD332S | 3 Phase | 10                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016CD332S | 3 Phase | 16                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020CD332S | 3 Phase | 20                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025CD332S | 3 Phase | 25                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA032CD332S | 3 Phase | 32                        | PSK22     |              |                    |  |                            |
| PSA040CD332S | 3 Phase | 40                        | PSK22     |              |                    |  |                            |
| PSA050CD332S | 3 Phase | 50                        | -         |              |                    |  |                            |
| PSA063CD332S | 3 Phase | 63                        | -         |              |                    |  |                            |
| PSA080CD332S | 3 Phase | 80                        | -         |              |                    |  |                            |
| PSA120CD332S | 3 Phase | 120                       | -         |              |                    |  |                            |



## 3 Phase Double Cycle Cam Switches (1-0-2)



PSA016CD334S

| Code         | Poles   | Rated Thermal Current (A) | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|---------|---------------------------|-----------|--------------|--------------------|--|----------------------------|
| PSA010CD334S | 3 Phase | 10                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA016CD334S | 3 Phase | 16                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA020CD334S | 3 Phase | 20                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA025CD334S | 3 Phase | 25                        | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA032CD334S | 3 Phase | 32                        | PSK22     |              |                    |  |                            |
| PSA040CD334S | 3 Phase | 40                        | PSK22     |              |                    |  |                            |
| PSA050CD334S | 3 Phase | 50                        | -         |              |                    |  |                            |
| PSA063CD334S | 3 Phase | 63                        | -         |              |                    |  |                            |
| PSA080CD334S | 3 Phase | 80                        | -         |              |                    |  |                            |
| PSA120CD334S | 3 Phase | 120                       | -         |              |                    |  |                            |

\* Can be supplied with Red-Yellow head w/o extra charge, in this case please replace "S" at the end with "E".

\*\* 10-25A Cam Switches can be supplied with big frame (64 x 64) with extra charge, In this case please replace the "S" at the end with "B"

\*\*\* Please replace "S" letter at the end of the code with "SAQ" for Key Operated & Quick Installation With Plate Model (with extra charge)

\*\*\*\* Please replace "S" letter at the end of the code with "SQ" for Quick Installation model (with extra charge)

## Measuring Cam Switches - 45°

| Code         | Type | Rated Thermal Current (A) | Position                | Enclosure | Key Operated | Quick Installation | Key Operated & Quick Installation With Plate | Lockable Handle With Plate |
|--------------|------|---------------------------|-------------------------|-----------|--------------|--------------------|--|----------------------------|
| PSA0100K421S | 4    | 10                        | Voltmeter               | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA0160K421S | 4    | 16                        | Voltmeter               | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA0200K421S | 4    | 20                        | Voltmeter               | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA0100K422S | 4    | 10                        | Phase - Phase Voltmeter | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA0160K422S | 4    | 16                        | Phase - Phase Voltmeter | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA0200K422S | 4    | 20                        | Phase - Phase Voltmeter | PSK11     | ✓            | ✓                  | ✓  | ✓                          |
| PSA0100K426S | 4    | 10                        | Ampermeter              | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA0160K426S | 4    | 16                        | Ampermeter              | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA0200K426S | 4    | 20                        | Ampermeter              | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA0100K723S | 7    | 10                        | Voltmeter               | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA0160K723S | 7    | 16                        | Voltmeter               | PSK12     | ✓            | ✓                  | ✓  | ✓                          |
| PSA0200K723S | 7    | 20                        | Voltmeter               | PSK12     | ✓            | ✓                  | ✓  | ✓                          |

\* Please replace "S" letter at the end of the code with "SQ" for Quick Installation model (with extra charge)



PSR1



PSR2



PSMK



PSPK0501



PSK11



PSK12



PSK21



PSK22



PSK31



PSK32

## Accessories

| Code     | Type                     | Features          | Material |
|----------|--------------------------|-------------------|----------|
| PSR1     | Rail Mounting Interface  | Between 10 - 40 A | Plastic  |
| PSR2     | Rail Mounting Interface  | Between 50 - 63 A | Plastic  |
| PSMK     | Handle Protection Cover  | Between 10-25 A   | Plastic  |
| PSPK0501 | Finger Protection 1 Step | 50 A              | Plastic  |
| PSPK0502 | Finger Protection 2 Step | 50 A              | Plastic  |
| PSPK0631 | Finger Protection 1 Step | 63 A              | Plastic  |
| PSPK0632 | Finger Protection 2 Step | 63 A              | Plastic  |

## Cam Switch Boxes

| Code   | Material | Dimensions - Width * Length * Height | Features |
|--------|----------|--------------------------------------|----------|
| PSK11  | Plastic  | 75mm * 85mm * 65mm                   | IP54     |
| PSK12  | Plastic  | 75mm * 85mm * 90mm                   | IP54     |
| PSK21  | Plastic  | 91mm * 100mm * 73mm                  | IP54     |
| PSK22  | Plastic  | 91mm * 100mm * 103mm                 | IP54     |
| PSK31  | Plastic  | 106mm * 116mm * 86mm                 | IP54     |
| PSK32  | Plastic  | 106mm * 116mm * 128mm                | IP54     |
| PSK11E | Plastic  | 75mm * 85mm * 65mm                   | IP65     |
| PSK12E | Plastic  | 75mm * 85mm * 90mm                   | IP65     |
| PSK21E | Plastic  | 91mm * 100mm * 73mm                  | IP65     |
| PSK22E | Plastic  | 91mm * 100mm * 103mm                 | IP65     |
| PSK31E | Plastic  | 106mm * 116mm * 86mm                 | IP65     |
| PSK32E | Plastic  | 106mm * 116mm * 128mm                | IP65     |



PSA020AK131AQ



PSA010KD134SQ



PSA020AK131K



PSA050AK331S + PSPK0502

EBM16PM4K



EBM16FU1T



EBM16PM41



EBP16FU10



EPREU1M



ECE316V4PE



ECE416V5FU



EBP16PM42



ECE416V5PU



EPREU2GL



ECE316V4FU



EBP05PU36



EBP05FU30



EBM04FU30



EB024CF00



EB024CP00



EBM04PM46



# Industrial Plugs & Sockets

## Plastic Series



EB004CF00



EB004CP00



EBP04FE41



EBP04FU30

### 4 Poles, 10A (PG 11)

| Code       | Type                            | Entry  | Handle  | Box/Pcs |
|------------|---------------------------------|--------|---------|---------|
| EB004CF00  | Male Insert                     |        |         | 100     |
| EB004CP00  | Female Insert                   |        |         | 100     |
| EBP04FE41* | Sloped Hood with Male Insert    | Bottom | Plastic | 50      |
| EBP04FU30  | Hood with Male Insert           | Top    |         | 50      |
| EBP05GE41* | Hood for Bulkhead Mounting      | Bottom | Plastic | 50      |
| EBP05GM41* | Hood for Bulkhead Mounting      | Bottom | Plastic | 50      |
| EBP05GU30  | Hood                            | Top    |         | 50      |
| EBP04PE41* | Sloped Hood with Female Insert  | Bottom | Plastic | 50      |
| EBP04PM41* | Bulkhead Mounting Female Insert | Bottom | Plastic | 50      |
| EBP04PM46* | Bulkhead Mounting Female Insert | Bottom | Metal   | 50      |
| EBP04PU30  | Hood with Female Insert         | Top    |         | 50      |
| EBP04PU31* | Hood with Female Insert         | Top    | Plastic | 50      |

### 5 Poles, 10 A (PG 11)

| Code       | Type                             | Entry  | Handle  | Box/Pcs |
|------------|----------------------------------|--------|---------|---------|
| EB005CF00  | Male Insert                      |        |         | 100     |
| EB005CP00  | Female Insert                    |        |         | 100     |
| EBP05GU30* | Hood                             | Top    |         | 50      |
| EBP05GM41* | Hood for bulkhead mounting       | Bottom | Plastic | 50      |
| EBP05GE41* | Hood for bulkhead mounting       | Bottom | Plastic | 50      |
| EBP05FU30* | Hood with Male insert            | Top    |         | 50      |
| EBP05PU30* | Hood with Female insert          | Top    |         | 50      |
| EBP05PM41* | Bulkhead mounting, Female insert | Bottom | Plastic | 50      |
| EBP05PM46* | Bulkhead Mounting Female Insert  | Bottom | Metal   | 50      |
| EBP05FE41* | Sloped hood with Male insert     | Bottom | Plastic | 50      |
| EBP05PE41* | Sloped hood with Female insert   | Bottom | Plastic | 50      |
| EBP05PU31* | Hood with female insert          | Top    | Plastic | 50      |
| EBA05TK    | Cap                              |        |         | 50      |

Product is Grey colour. Please add H to end of the code in order to change the colour to Black.  
For Metal Handle, replace 1 at the end with 6.



EBP05FU30



EBP05PU30



EBP05PU36



EBP05PE41



EBA05TK



EBP05FU30H



EBP05PM46H



EBP05PM41H



EBP05GE46

### 6 Poles, 16 A (PG 16) IP65

| Code      | Type                             | Entry  | Handle  | Box/Pcs |
|-----------|----------------------------------|--------|---------|---------|
| EB006CF00 | Male Insert                      |        |         | 50      |
| EB006CP00 | Female Insert                    |        |         | 50      |
| EBP06FM42 | Bulkhead mounting, Male insert   | Bottom | Plastic | 20      |
| EBP06FU10 | Hood with Male insert            | Side   |         | 20      |
| EBP06GM42 | Hood for bulkhead mounting       | Bottom | Plastic | 20      |
| EBP06GU10 | Hood                             | Side   |         | 20      |
| EBP06PM42 | Bulkhead mounting, Female insert | Bottom | Plastic | 20      |
| EBP06PU10 | Hood with Female insert          | Side   |         | 20      |
| EBP06PU12 | Hood with Female insert          | Side   | Plastic | 10      |
| EBA06TK   | Cap                              |        |         | 50      |



EBP10PM42

### 10 Poles, 16 A (PG 21) IP65

| Code      | Type                             | Entry  | Handle  | Box/Pcs |
|-----------|----------------------------------|--------|---------|---------|
| EB010CF00 | Male Insert                      |        |         | 50      |
| EB010CP00 | Female Insert                    |        |         | 50      |
| EBP10FM42 | Bulkhead mounting, Male insert   | Bottom | Plastic | 20      |
| EBP10FU10 | Hood with Male insert            | Side   |         | 15      |
| EBP10GM42 | Hood for bulkhead mounting       | Bottom | Plastic | 20      |
| EBP10GU10 | Hood                             | Side   |         | 15      |
| EBP10GU12 | Hood                             | Side   | Plastic | 15      |
| EBP10PM42 | Bulkhead mounting, Female insert | Bottom | Plastic | 20      |
| EBP10PU10 | Hood with Female insert          | Side   |         | 15      |
| EBP10PU12 | Hood with Female insert          | Side   | Plastic | 10      |
| EBA10TK   | Cap                              |        |         | 50      |

NOTE: IP65 Protection Level in combination with appropriate cable gland.



EBP16FU10



EBP16PM42



EBP24FU10



EBP24PM42

## 16 Poles, 16 A (PG 21) IP65

| Code      | Type                            | Entry  | Handle  | Box/Pcs |
|-----------|---------------------------------|--------|---------|---------|
| EB016CF00 | Male Insert                     |        |         | 50      |
| EB016CP00 | Female Insert                   |        |         | 50      |
| EBP16FM42 | Bulkhead Mounting Male Insert   | Bottom | Plastic | 20      |
| EBP16FU10 | Hood with Male Insert           | Side   |         | 15      |
| EBP16GM42 | Hood for bulkhead mounting      | Bottom | Plastic | 20      |
| EBP16GU10 | Hood                            | Side   |         | 15      |
| EBP16GU12 | Hood                            | Side   | Plastic | 15      |
| EBP16PM42 | Bulkhead Mounting Female Insert | Bottom | Plastic | 20      |
| EBP16PU10 | Hood with Female Insert         | Side   |         | 15      |
| EBP16PU12 | Hood with Female Insert         | Side   | Plastic | 10      |
| EBA16TK   | Cap                             |        |         | 50      |

## 24 Poles, 16 A (PG 21) IP65

| Code      | Type                            | Entry  | Handle  | Box/Pcs |
|-----------|---------------------------------|--------|---------|---------|
| EB024CF00 | Male Insert                     |        |         | 30      |
| EB024CP00 | Female Insert                   |        |         | 30      |
| EBP24FM42 | Bulkhead Mounting Male Insert   | Bottom | Plastic | 20      |
| EBP24FU10 | Hood with Male Insert           | Side   |         | 15      |
| EBP24GM42 | Hood for bulkhead mounting      | Bottom | Plastic | 20      |
| EBP24GU10 | Hood                            | Side   |         | 15      |
| EBP24GU12 | Hood                            | Side   | Plastic | 15      |
| EBP24PM42 | Bulkhead Mounting Female Insert | Bottom | Plastic | 20      |
| EBP24PU10 | Hood with Female Insert         | Side   |         | 15      |
| EBP24PU12 | Hood with Female Insert         | Side   | Plastic | 10      |
| EBA24TK   | Cap                             |        |         | 50      |

## Metal Series

### 4 Poles, 10 A (PG 11)

| Code      | Type                            | Entry  | Handle | Box/Pcs |
|-----------|---------------------------------|--------|--------|---------|
| EB004CF00 | Male Insert                     |        |        | 100     |
| EB004CP00 | Female Insert                   |        |        | 100     |
| EBM05GU30 | Hood                            | Top    |        | 50      |
| EBM05GU36 | Hood                            | Top    | Metal  | 50      |
| EBM05GM46 | Hood for bulkhead mounting      | Bottom | Metal  | 50      |
| EBM05GE46 | Sloped Hood                     | Bottom | Metal  | 50      |
| EBM04FE46 | Sloped Hood with Male Insert    | Bottom | Metal  | 50      |
| EBM04FU10 | Hood with Male Insert           | Side   |        | 50      |
| EBM04FU30 | Hood with Male Insert           | Top    |        | 50      |
| EBM04PE46 | Sloped Hood with Male Insert    | Bottom | Metal  | 50      |
| EBM04PM46 | Bulkhead Mounting Female Insert | Bottom | Metal  | 50      |
| EBM04PU10 | Hood with Female Insert         | Side   |        | 50      |
| EBM04PU30 | Hood with Female Insert         | Top    |        | 50      |
| EBM04PU36 | Hood with Female Insert         | Top    | Metal  | 50      |



EBM04FE46



EBM04FU10



EBM04FU30



EBM04PE46



EBM04PM46



EBM04PU10



EBM04PU30



EBM04PU36

NOTE: IP65 Protection Level in combination with appropriate cable gland.

## Metal Series

### 5 Poles, 10 A (PG 11)

| Code      | Type  | Entry         | Handle  | Box/Pcs |
|-----------|---|---------------|---------|---------|
| EBM05CF00 | Male Insert                                   |               |         | 100     |
| EBM05CP00 | Female Insert                                 |               |         | 100     |
| EBM05GU30 | Hood  | Top           |         | 50      |
| EBM05GU36 | Hood  | Top           | Metal   | 50      |
| EBM05GM46 | Hood for bulkhead mounting                    | Bottom        | Metal   | 50      |
| EBM05GE46 | Sloped hood Bottom                            | Bottom        | Metal   | 50      |
| EBM05FU10 | Hood with Male insert                         | Side          |         | 50      |
| EBM05FU30 | Hood with Male insert                         | Top           |         | 50      |
| EBM05PU30 | Hood with Female insert                       | Top           |         | 50      |
| EBM05PU36 | Hood with Female insert                       | Top           | Metal   | 50      |
| EBM05PM46 | Bulkhead mounting, Housing with Female insert | Bottom        | Metal   | 50      |
| EBM05FE46 | Sloped hood with Male insert                  | Bottom        | Metal   | 50      |
| EBM05PE41 | Sloped hood with Female insert                | Bottom        | Plastic | 50      |
| EBM05PE46 | Sloped hood with Female insert                | Bottom        | Metal   | 50      |
| EBM05PU10 | Hood with Female insert                       | Side          |         | 50      |
| EBM05PE56 | Sloped hood with Female insert                | Bottom + Side | Metal   | 50      |
| EBA05TK   | Cap   |               |         | 50      |

For Plastic handle models, replace "1" instead of "6".



EBM05FU30



EBM05PU30



EBM05PU36



EBM05PE41



EBA05TK



EBM06FU30



EBM06FM42



EBM06PU32



EBM06PU30



EBA06TK

### 6 Poles, 16 A (PG 16)

| Code      | Type  | Entry  | Handle        | Box/Pcs |
|-----------|---|--------|---------------|---------|
| EBM06CF00 | Male Insert                                   |        |               | 50      |
| EBM06CP00 | Female Insert                                 |        |               | 50      |
| EBM06GU10 | Hood  | Side   |               | 20      |
| EBM06GU30 | Hood  | Top    |               | 20      |
| EBM06GU32 | Hood  | Top    | Metal-Plastic | 15      |
| EBM06GM42 | Hood for bulkhead mounting                    | Bottom | Metal-Plastic | 20      |
| EBM06FU10 | Hood with Male insert                         | Side   |               | 20      |
| EBM06FU30 | Hood with Male insert                         | Top    |               | 20      |
| EBM06PU10 | Hood with Female insert                       | Side   |               | 20      |
| EBM06PU30 | Hood with Female insert                       | Top    |               | 20      |
| EBM06PU32 | Hood with Female insert                       | Top    | Metal-Plastic | 20      |
| EBM06FM42 | Bulkhead mounting, Housing with Male Insert   | Bottom | Metal-Plastic | 20      |
| EBM06PM42 | Bulkhead mounting, Housing with Female Insert | Bottom | Metal-Plastic | 20      |
| EBM06PM46 | Bulkhead mounting, Housing with Female Insert |        | Metal-Plastic | 20      |
| EBM06FD12 | Surface mounting, Housing with Male Insert    | Side   | Metal-Plastic | 15      |
| EBM06PD12 | Surface mounting, Housing with Female Insert  | Side   | Metal-Plastic | 15      |
| EBA06TK   | Cap   |        |               | 50      |

\* For Metal Handle, replace "2" at the end with "6"



EBM10PU10



EBM10PU30



EBM10FD24



EBM10PM44



EBM10PM47



EBM10PD27



EBA10TK



EBM10PM4K

## 10 Poles, 16 A (PG 21) IP65

| Code       | Type  | Option | Entry     | Handle        | Box/Pcs |
|------------|---|--------|-----------|---------------|---------|
| EB010CF00  | Male Insert                                   |        |           |               | 50      |
| EB010CP00  | Female Insert                                 |        |           |               | 50      |
| EBM10GU10  | Hood  | **     | Side      |               | 15      |
| EBM10GU30  | Hood  | **     | Top       |               | 15      |
| EBM10GU34* | Hood  | **     | Top       | Metal-Plastic | 10      |
| EBM10GM44* | Hood for bulkhead mounting                    |        | Bottom    | Metal-Plastic | 20      |
| EBM10GD14* | Surface Mounting Head                         |        | Side      | Metal-Plastic | 10      |
| EBM10GD24* | Surface Mounting Head                         |        | Both Side | Metal-Plastic | 10      |
| EBM10FU10  | Hood with male insert                         | **     | Side      |               | 15      |
| EBM10FU30  | Hood with male insert                         | **     | Top       |               | 15      |
| EBM10PU10  | Hood with female insert                       | **     | Side      |               | 15      |
| EBM10PU14  | Hood with female insert                       | **     | Side      | Metal-Plastic | 10      |
| EBM10PU30  | Hood with female insert                       | **     | Top       |               | 15      |
| EBM10PU34* | Hood with female insert                       | **     | Top       | Metal-Plastic | 10      |
| EBM10FM44* | Bulkhead Mounting, Housing with Male Insert   |        | Bottom    | Metal-Plastic | 20      |
| EBM10PM44* | Bulkhead Mounting, Housing with Female Insert |        | Bottom    | Metal-Plastic | 20      |
| EBM10PM47  | Bulkhead mounting, Housing with Female Insert |        | Bottom    | Metal         | 20      |
| EBM10FD14* | Surface mounting, Housing with Male Insert    |        | Side      | Metal-Plastic | 10      |
| EBM10FD24* | Surface mounting, Housing with Male Insert    |        | Both Side | Metal-Plastic | 10      |
| EBM10PD14* | Surface mounting, Housing with Female Insert  |        | Side      | Metal-Plastic | 10      |
| EBM10PD24* | Surface mounting, Housing with Female Insert  |        | Both Side | Metal-Plastic | 10      |
| EBM10PD27  | Surface mounting, Housing with Female Insert  |        | Both Side | Metal-Plastic | 10      |
| EBM10TABAN | Base  |        |           |               | 10      |
| EBA10TK    | Cap   |        |           |               | 50      |

\* For Metal Handle, replace "4" at the end with "7".

\* For spring cover preferences, instead of "4" and "7", please use "K" letter.

\* Standard PG16, please add PG21 to the end of the code in order to order PG21 hole.

NOTE: IP65 Protection Level in combination with appropriate cable gland.

\*Please replace "4" with "1" or "0" with "T" in order to order single handle model.



EB016CP00



EB016CF00



EBM16FU10



EBM16FM44



EBM16PD14



EBM16FD24

## 16 Poles, 16 A (PG 21) IP65

| Code       | Type  | Entry     | Handle        | Box/Pcs |
|------------|---|-----------|---------------|---------|
| EB016CF00  | Male Insert                                   |           |               | 50      |
| EB016CP00  | Female Insert                                 |           |               | 50      |
| EBM16GU10  | Hood  | Side      |               | 10      |
| EBM16GU30  | Hood  | Top       |               | 10      |
| EBM16GU34* | Hood  | Top       | Metal-Plastic | 8       |
| EBM16GM44* | Hood for bulkhead mounting                    | Bottom    | Metal-Plastic | 15      |
| EBM16GD14* | Surface mounting hood                         | Side      | Metal-Plastic | 8       |
| EBM16GD24* | Surface mounting hood                         | Both Side | Metal-Plastic | 8       |
| EBM16FU10  | Hood with male insert                         | Side      |               | 10      |
| EBM16FU30  | Hood with male insert                         | Top       |               | 10      |
| EBM16PU10  | Hood with female insert                       | Side      |               | 10      |
| EBM16PU14  | Hood with female insert                       | Side      | Metal-Plastic | 10      |
| EBM16PU30  | Hood with female insert                       | Top       |               | 10      |
| EBM16PU34* | Bulkhead Mounting, Housing with Male Insert   | Bottom    | Metal-Plastic | 8       |
| EBM16FM44* | Bulkhead Mounting, Housing with Female Insert | Bottom    | Metal-Plastic | 15      |
| EBM16PM44* | Surface mounting, Housing with Male Insert    | Side      | Metal-Plastic | 15      |
| EBM16FD14* | Surface mounting, Housing with Male Insert    | Both Side | Metal-Plastic | 8       |
| EBM16FD24* | Surface mounting, Housing with Female Insert  | Side      | Metal-Plastic | 8       |
| EBM16PD14* | Surface mounting, Housing with Female Insert  | Both Side | Metal-Plastic | 8       |
| EBM16PD24* | Surface mounting, Housing with female insert  | Bottom    | Metal-Plastic | 8       |
| EBM16PD27  | Surface mounting, Housing with female insert  | Both Side | Metal-Plastic | 8       |
| EBA16TK    | Cap   |           |               | 50      |

\* For Metal Handle, replace "4" at the end with "7".

\* For spring cover preferences, instead of "4" and "7", please use "K" letter.



EBM16PM4K



EBM24PM4K



EB024CP00



EB024CF00



EBM24FU10



EBM24PM4K



EBM24FD24

## 24 Poles, 16 A (PG 21)

| Code       | Type  | Entry     | Handle        | Box/Pcs |
|------------|---|-----------|---------------|---------|
| EB024CF00  | Male Insert                                   |           |               | 30      |
| EB024CP00  | Female Insert                                 |           |               | 30      |
| EBM24GU10  | Hood  | Side      |               | 10      |
| EBM24GU30  | Hood  | Top       |               | 10      |
| EBM24GU34* | Hood  | Top       | Metal-Plastic | 8       |
| EBM24GM44* | Hood for bulkhead mounting                    | Bottom    | Metal-Plastic | 15      |
| EBM24GD14* | Surface mounting hood                         | Side      | Metal-Plastic | 8       |
| EBM24GD24* | Surface mounting hood                         | Both Side | Metal-Plastic | 8       |
| EBM24FU10  | Hood with male insert                         | Side      |               | 10      |
| EBM24FU30  | Hood with male insert                         | Top       |               | 10      |
| EBM24PU10  | Hood with female insert                       | Side      |               | 10      |
| EBM24PU14  | Hood with female insert                       | Side      | Metal-Plastic | 10      |
| EBM24PU30  | Hood with female insert                       | Top       |               | 10      |
| EBM24PU34* | Hood with female insert                       | Top       | Metal-Plastic | 8       |
| EBM24FM44* | Bulkhead Mounting, Housing with Male Insert   | Bottom    | Metal-Plastic | 15      |
| EBM24PM44* | Bulkhead Mounting, Housing with Female Insert | Bottom    | Metal-Plastic | 15      |
| EBM24PM47  | Bulkhead mounting, Housing with female insert | Bottom    | Metal         | 15      |
| EBM24FD14* | Surface mounting, Housing with Male Insert    | Side      | Metal-Plastic | 8       |
| EBM24FD24* | Surface mounting, Housing with Male Insert    | Both Side | Metal-Plastic | 8       |
| EBM24PD14* | Surface mounting, Housing with Female Insert  | Side      | Metal-Plastic | 8       |
| EBM24PD24* | Surface mounting, Housing with Female Insert  | Both Side | Metal-Plastic | 8       |
| EBA24TK    | Cap   |           |               | 50      |

\*For Metal Handle, replace "4" at the end with "7". \*For spring cover preferences, instead of "4" and "7", please use "K" letter.

\*Please add "PG21" to the end of the code in order to order PG21 hole. \*NOTE: IP65 Protection Level in combination with appropriate cable gland. \*Please replace "4" with "1" or "0" with "T" in order to order single handle model.



EBM24PM44



EBM32FU10



EBM32PU10



EBM32PM44



EBM32FM44



EBA32TK

## 32 Poles, 16 A (PG 21)

| Code       | Type  | Option | Entry     | Handle        | Box/Pcs |
|------------|---|--------|-----------|---------------|---------|
| EB016CF00  | Male Insert (1-16)                            |        |           |               | 50      |
| EB016CP00  | Female Insert (1-16)                          |        |           |               | 50      |
| EB032CF00  | Male Insert (17-32)                           |        |           |               | 30      |
| EB032CP00  | Female Insert (17-32)                         |        |           |               | 30      |
| EBM32GU10  | Hood  | **     | Side      |               | 6       |
| EBM32GU30  | Hood  | **     | Top       |               | 6       |
| EBM32GM44* | Hood for bulkhead mounting                    |        | Bottom    | Metal-Plastic | 10      |
| EBM32GD14* | Surface mounting hood                         |        | Side      | Metal-Plastic | 6       |
| EBM32GD24* | Surface mounting hood                         |        | Both Side | Metal-Plastic | 6       |
| EBM32FU10  | Hood with male insert                         | **     | Side      |               | 6       |
| EBM32FU30  | Hood with male insert                         | **     | Top       |               | 6       |
| EBM32PU10  | Hood with female insert                       | **     | Side      |               | 6       |
| EBM32PU30  | Hood with female insert                       | **     | Top       |               | 6       |
| EBM32FM44* | Bulkhead Mounting, Housing with Male Insert   |        | Bottom    | Metal-Plastic | 10      |
| EBM32PM44* | Bulkhead Mounting, Housing with Female Insert |        | Bottom    | Metal-Plastic | 10      |
| EBM32PM48* | Bulkhead Mounting, Housing with Female Insert |        | Bottom    | Metal         | 10      |
| EBM32FD14* | Surface mounting, Housing with Male Insert    |        | Side      | Metal-Plastic | 6       |
| EBM32FD24* | Surface mounting, Housing with Male Insert    |        | Both Side | Metal-Plastic | 6       |
| EBM32PD14* | Surface mounting, Housing with Female Insert  |        | Side      | Metal-Plastic | 6       |
| EBM32PD24* | Surface mounting, Housing with Female Insert  |        | Both Side | Metal-Plastic | 6       |
| EBM32PU14  | Hood with female insert                       |        | Side      | Metal-Plastic | 6       |
| EBM32PU34  | Hood with female insert                       |        | Top       | Metal-Plastic | 6       |
| EBM32TABAN | Base  |        |           |               | 6       |
| EBA32TK    | Cap   |        |           |               | 40      |

\* For Metal Handle, replace "4" at the end with "8". \*\* Standard PG21, please add PG29 to the end of the code in order to order PG29 hole.

NOTE: IP65 Protection Level in combination with appropriate cable gland.



EBA48TK



EBM48PU10



EBM48FU10



EBM48FU30



EBM48PM44



EBM48PD24

## 48 Poles, 16 A (PG 29)

| Code       | Type  | Entry     | Handle        | Box/Pcs |
|------------|---|-----------|---------------|---------|
| EB024CF00  | Male Insert (1-24)                            |           |               | 30      |
| EB024CP00  | Female Insert (1-24)                          |           |               | 30      |
| EB048CF00  | Male Insert (25-48)                           |           |               | 30      |
| EB048CP00  | Female Insert (25-48)                         |           |               | 30      |
| EBM48GU10  | Hood  | Side      |               | 4       |
| EBM48GU30  | Hood  | Top       |               | 4       |
| EBM48GM44* | Hood for bulkhead mounting                    | Bottom    | Metal-Plastic | 8       |
| EBM48GD14* | Surface mounting hood                         | Side      | Metal-Plastic | 4       |
| EBM48GD24* | Surface mounting hood                         | Both Side | Metal-Plastic | 4       |
| EBM48FU10  | Hood with male insert                         | Side      |               | 4       |
| EBM48FU30  | Hood with male insert                         | Top       |               | 4       |
| EBM48PU10  | Hood with female insert                       | Side      |               | 4       |
| EBM48PU30  | Hood with female insert                       | Top       |               | 4       |
| EBM48FM44* | Bulkhead Mounting, Housing with Male Insert   | Bottom    | Metal-Plastic | 8       |
| EBM48PM44* | Bulkhead Mounting, Housing with Female Insert | Bottom    | Metal-Plastic | 8       |
| EBM48PM48* | Bulkhead Mounting, Housing with Female Insert | Bottom    | Metal         | 8       |
| EBM48FD14* | Surface mounting, Housing with Male Insert    | Side      | Metal-Plastic | 4       |
| EBM48FD24* | Surface mounting, Housing with Male Insert    | Both Side | Metal-Plastic | 4       |
| EBM48PD14* | Surface mounting, Housing with Female Insert  | Side      | Metal-Plastic | 4       |
| EBM48PD24* | Surface mounting, Housing with Female Insert  | Both Side | Metal-Plastic | 4       |
| EBM48PU14  | Hood with female insert                       | Side      | Metal-Plastic | 4       |
| EBM48PU34  | Hood with female insert                       | Top       | Metal-Plastic | 4       |
| EBM48TABAN | Base  |           |               | 4       |
| EBA48TK    | Cap   |           |               | 40      |

\* For Metal Handle, replace "4" at the end with "8".



EB0606CP00



EB0606CF00



EBM606FU10



EBM606PD14



EBA16TK

## 6 Poles, 35 A (PG 21)

| Code        | Type  | Entry     | Handle        | Box/Pcs |
|-------------|---|-----------|---------------|---------|
| EB0606CF00  | Male Insert                                   |           |               | 50      |
| EB0606CP00  | Female Insert                                 |           |               | 50      |
| EBM16GU10   | Hood  | Side      |               | 10      |
| EBM16GU30   | Hood  | Top       |               | 10      |
| EBM16GU34*  | Hood  | Top       | Metal-Plastic | 8       |
| EBM16GM44*  | Hood for bulkhead mounting                    | Bottom    | Metal-Plastic | 15      |
| EBM16GD14*  | Hood for surface mounting                     | Side      | Metal-Plastic | 8       |
| EBM16GD24*  | Hood for surface mounting                     | Both Side | Metal-Plastic | 8       |
| EBM606FU10  | Hood with male insert                         | Side      |               | 10      |
| EBM606FU30  | Hood with male insert                         | Top       |               | 10      |
| EBM606PU10  | Hood with female insert                       | Side      |               | 50      |
| EBM606PU30  | Hood with female insert                       | Top       |               | 10      |
| EBM606PU34* | Hood with female insert                       | Top       | Metal-Plastic | 8       |
| EBM606FM44* | Bulkhead Mounting, Housing with Male Insert   | Bottom    | Metal-Plastic | 15      |
| EBM606PM44* | Bulkhead Mounting, Housing with Female Insert | Bottom    | Metal-Plastic | 15      |
| EBM606FD14* | Surface mounting, Housing with Male Insert    | Side      | Metal-Plastic | 8       |
| EBM606FD24* | Surface mounting, Housing with Male Insert    | Both Side | Metal-Plastic | 8       |
| EBM606PD14* | Surface mounting, Housing with Female Insert  | Side      | Metal-Plastic | 8       |
| EBM606PD24* | Surface mounting, Housing with Female Insert  | Both Side | Metal-Plastic | 8       |
| EBA16TK     | Cap   |           |               | 50      |

\* For Metal Handle, replace "4" at the end with "7".

\* For spring cover preferences, instead of "4" and "7", please use "K" letter.

\* Please add "PG21" to the end of the code in order to order PG21 hole.

\* NOTE: IP65 Protection Level in combination with appropriate cable gland.

\* Please replace "4" with "1" or "0" with "T" in order to order single handle model.



EBM612PU10



EBM612PM44



EBA32TK

## 12 Poles, 35 A (PG 21) IP65

| Code        | Type  | Entry     | Handle        | Box/Pcs |
|-------------|---|-----------|---------------|---------|
| EB0606CF00  | Male Insert (1-6)                             |           |               | 50      |
| EB0606CP00  | Female Insert (1-6)                           |           |               | 50      |
| EB0612CF00  | Male Insert (7-12)                            |           |               | 50      |
| EB0612CP00  | Female Insert (7-12)                          |           |               | 50      |
| EBM32GU10   | Hood  | Side      |               | 6       |
| EBM32GU30   | Hood  | Top       |               | 6       |
| EBM32GM44*  | Hood for bulkhead mounting                    | Bottom    | Metal-Plastic | 10      |
| EBM32GD14*  | Hood for surface mounting                     | Side      | Metal-Plastic | 6       |
| EBM32GD24*  | Hood for surface mounting                     | Both Side | Metal-Plastic | 6       |
| EBM612FU10  | Hood with male insert                         | Side      |               | 6       |
| EBM612FU30  | Hood with male insert                         | Top       |               | 6       |
| EBM612PU10  | Hood with female insert                       | Side      |               | 6       |
| EBM612PU30  | Hood with female insert                       | Top       |               | 6       |
| EBM612FM44* | Bulkhead Mounting, Housing with Male Insert   | Bottom    | Metal-Plastic | 10      |
| EBM612PM44* | Bulkhead Mounting, Housing with Female Insert | Bottom    | Metal-Plastic | 10      |
| EBM612FD14* | Surface mounting, Housing with Male Insert    | Side      | Metal-Plastic | 6       |
| EBM612FD24* | Surface mounting, Housing with Male Insert    | Both Side | Metal-Plastic | 6       |
| EBM612PD14* | Surface mounting, Housing with Female Insert  | Side      | Metal-Plastic | 6       |
| EBM612PD24* | Surface mounting, Housing with Female Insert  | Both Side | Metal-Plastic | 6       |
| EBA32TK     | Cap   |           |               | 40      |

\* For Metal Handle, replace "4" at the end with "8".



EB0806CF00



EB0806CP00



EBM806FU10



EBM806PD14



EBA16TK

## 6 Poles (4 x 80A + 2 x 16A) (PG21) IP65

| Code        | Type   | Entry     | Handle        | Box/Pcs |
|-------------|--|-----------|---------------|---------|
| EB0806CF00  | Male Insert  |           |               | 50      |
| EB0806CP00  | Female Insert  |           |               | 40      |
| EBM16GU10   | Hood   | Side      |               | 10      |
| EBM16GU30   | Hood   | Top       |               | 10      |
| EBM16GU34*  | Hood   | Top       | Metal-Plastic | 8       |
| EBM16GM44*  | Hood for bulkhead mounting   | Bottom    | Metal-Plastic | 15      |
| EBM16GD14*  | Hood for surface mounting  | Side      | Metal-Plastic | 8       |
| EBM16GD24*  | Hood for surface mounting  | Both Side | Metal-Plastic | 8       |
| EBM806FU10  | Hood with male insert  | Side      |               | 10      |
| EBM806FU30  | Hood with male insert  | Top       |               | 10      |
| EBM806FM44* | Bulkhead mounting, housing with male insert with 4 roller handle   | Bottom    | Metal-Plastic | 15      |
| EBM806FD14* | Surface mounting, housing with male insert                         | Side      | Metal-Plastic | 8       |
| EBM806FD24* | Surface mounting, housing with male insert                         | Both Side | Metal-Plastic | 8       |
| EBM806PM44* | Bulkhead mounting, housing with female insert with 4 roller handle | Bottom    | Metal-Plastic | 15      |
| EBM806PU10  | Hood with female insert  | Side      |               | 10      |
| EBM806PU30  | Hood with female insert  | Top       |               | 10      |
| EBM806PD14* | Surface mounting, housing with male insert                         | Side      | Metal-Plastic | 8       |
| EBM806PD24* | Surface mounting, housing with female insert                       | Both Side | Metal-Plastic | 8       |
| EBA16TK     | Cap  |           |               | 50      |

\* For Metal Handle, replace "4" at the end with "7".

NOTE: IP65 Protection Level in combination with appropriate cable gland.

\*For spring cover preferences, instead of "4" and "7", please use "K" letter.

\*Please add "PG21" to the end of the code in order to order PG21 hole.

\*Please replace "4" with "1" or "0" with "T" in order to order single handle model.



EBM812FU30



EBM812PM44



EBA32TK

## 12 Poles, 2 x (4 x 80A + 2 x 16A) (PG 21)

| Code        | Type   | Entry     | Handle        | Box/Pcs |
|-------------|--|-----------|---------------|---------|
| EB0806CF00  | Male Insert (1-6)  |           |               | 50      |
| EB0806CP00  | Female Insert (1-6)  |           |               | 50      |
| EB0812CF00  | Male Insert (7-12)   |           |               | 50      |
| EB0812CP00  | Female Insert (7-12)   |           |               | 50      |
| EBM812FU10  | Hood with male insert  | Side      |               | 6       |
| EBM812FU30  | Hood with male insert  | Top       |               | 6       |
| EBM812FM44* | Bulkhead Mounting, Housing with Male Insert with 4 Roller Handle   | Bottom    | Metal-Plastic | 8       |
| EBM812PM44* | Bulkhead Mounting, Housing with Female Insert with 4 Roller Handle | Bottom    | Metal-Plastic | 10      |
| EBM812FD14* | Surface mounting, Housing with Male Insert                         | Side      | Metal-Plastic | 6       |
| EBM812FD24* | Surface mounting, Housing with Male Insert                         | Both Side | Metal-Plastic | 6       |
| EBM812PD14* | Surface mounting, Housing with Female Insert                       | Side      | Metal-Plastic | 6       |
| EBM812PD24* | Surface mounting, Housing with Female Insert                       | Both Side | Metal-Plastic | 6       |
| EBM812PU10  | Hood with male insert  | Side      |               | 6       |
| EBM812PU30  | Hood with female insert  | Top       |               | 6       |
| EBA32TK     | Cap  |           |               | 40      |

\* For Metal Handle, replace "4" at the end with "8".

NOTE: IP65 Protection Level in combination with appropriate cable gland.



EBMKE



EBMKD

## Accessories

| Code  | Features             | Box/Pcs |
|-------|----------------------|---------|
| EBMKD | Marking Pin - Female | 10      |
| EBMKE | Marking Pin - Male   | 10      |



EPREU1M



EPRUS1H

## Panel Type Sockets

| Code     | Features                               | Colour | Box/Pcs |
|----------|--|--------|---------|
| EPREU1M  | European Schuko Type 1                 |        | 40      |
| EPRUS1H  | American, Type1                        |        | 40      |
| EPREU2G  | Rail Types                             |        | 10      |
| EPREU2GL | Rail Types, with LED                   |        | 10      |
| EPRFR2K  | Panel Socket, UPS Socket (French Type) |        | 10      |
| EPRFR2G  | Rail Type, UPS Socket (French Type)    |        | 10      |



EPREU2G



EPRFR2K



EPREU2GL



EKS116F



EKS325PG30

## Rubber Type Plugs & Sockets

| Code       | Type                 | Features                    | Box/Pcs |
|------------|----------------------|-----------------------------|---------|
| EKS116F    | Plug                 | 1 x 16 A                    | 40      |
| EKS116P    | Socket               | 1 x 16 A                    | 30      |
| EKS116PG1  | Wall Socket          | 1 x 16 A                    | 20      |
| EKS116PG3  | Group Socket - 3 Way | 3x (1 x 16 A)               | 6       |
| EKS325F    | Plug                 | 3 x 25 A                    | 30      |
| EKS325PG30 | Group Socket - 3 Way | 3 x (3 x 25) A              | 4       |
| EKS325PG21 | Group Socket - 3 Way | 2 x (3x25) A + 1 x (1x16) A | 4       |
| EKS325PG12 | Group Socket - 3 Way | 1 x (3x25) A + 2 x (1x16) A | 4       |



EKS116PG3



EKS325F



EKS116F



EKS116PG1

## ECE Series CEE NORM

### 3 x 16 A (2P+E) IP44

| Code       | Type  | Option         | Voltage     | Box/Pcs |
|------------|---|----------------|-------------|---------|
| ECE316V4FU | Hood with Male Insert                         | Screw Terminal | 220/240V AC | 15      |
| ECE316V4PE | Sloped hood with Female insert                | Screw Terminal | 220/240V AC | 15      |
| ECE316V4PM | Bulkhead mounting, Housing with Female Insert | Screw Terminal | 220/240V AC | 15      |
| ECE316V4PU | Hood with Female Insert                       | Screw Terminal | 220/240V AC | 15      |



ECE316V4FU



ECE316V4PE



ECE316V4PE



ECE316V4PM



ECE316V4PM



ECE316V4PU



ECE316V4PU

### 4 x 16 A (3P+E) IP44

| Code       | Type  | Option         | Voltage     | Box/Pcs |
|------------|---|----------------|-------------|---------|
| ECE416V5FU | Hood with Male Insert                         | Screw Terminal | 380/480V AC | 15      |
| ECE416V5PE | Sloped hood with Female insert                | Screw Terminal | 380/480V AC | 15      |
| ECE416V5PM | Bulkhead mounting, Housing with Female Insert | Screw Terminal | 380/480V AC | 15      |
| ECE416V5PU | Hood with Female Insert                       | Screw Terminal | 380/480V AC | 12      |



ECE416V5FU



ECE416V5PE



ECE416V5PE



ECE416V5PM



ECE416V5PM



ECE416V5PU



ECE416V5PU



IF5T024ZM05

IF6P024WM05



IT070R240Z

IK53F024ZM03



IF5M024XM05



IF3P024XS30-1



IKML110Y



IT120G024Z

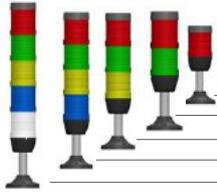


IT120Y024

# Signalling Devices

## IK Series

Light Towers can be purchased as complete or modular. Mounting system is easy with plug and turn system without any mounting equipment.



### COMPLETE LIGHT TOWER Dia 50 mm ( with 100 mm Aluminium connection, body and Lamps)

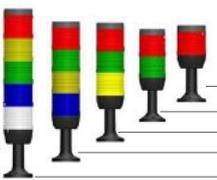
| Code         | Illumination | Buzzer |
|--------------|--------------|--------|
| IK51L * XM03 | LED          | -      |
| IK52L * XM03 | LED          | -      |
| IK53L * XM03 | LED          | -      |
| IK54L * XM03 | LED          | -      |
| IK55L * XM03 | LED          | -      |

| Code         | Illumination      | Buzzer |
|--------------|-------------------|--------|
| IK51F * XM03 | with Flashing LED | -      |
| IK52F * XM03 | with Flashing LED | -      |
| IK53F * XM03 | with Flashing LED | -      |
| IK54F * XM03 | with Flashing LED | -      |
| IK55F * XM03 | with Flashing LED | -      |



| Code         | Illumination | Buzzer |
|--------------|--------------|--------|
| IK50X * ZM03 | -            | 90 dB  |
| IK51L * ZM03 | LED          | 90 dB  |
| IK52L * ZM03 | LED          | 90 dB  |
| IK53L * ZM03 | LED          | 90 dB  |
| IK54L * ZM03 | LED          | 90 dB  |

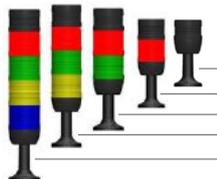
| Code         | Illumination      | Buzzer |
|--------------|-------------------|--------|
| IK50X * ZM03 | -                 | 90 dB  |
| IK51F * ZM03 | with Flashing LED | 90 dB  |
| IK52F * ZM03 | with Flashing LED | 90 dB  |
| IK53F * ZM03 | with Flashing LED | 90 dB  |
| IK54F * ZM03 | with Flashing LED | 90 dB  |



### COMPLETE LIGHT TOWER Dia 70 mm (100 mm Plastic connection, body and Lamps)

| Code         | Illumination | Buzzer |
|--------------|--------------|--------|
| IK71L * XM01 | LED          | -      |
| IK72L * XM01 | LED          | -      |
| IK73L * XM01 | LED          | -      |
| IK74L * XM01 | LED          | -      |
| IK75L * XM01 | LED          | -      |

| Code         | Illumination      | Buzzer |
|--------------|-------------------|--------|
| IK71F * XM01 | with Flashing LED | -      |
| IK72F * XM01 | with Flashing LED | -      |
| IK73F * XM01 | with Flashing LED | -      |
| IK74F * XM01 | with Flashing LED | -      |
| IK75F * XM01 | with Flashing LED | -      |



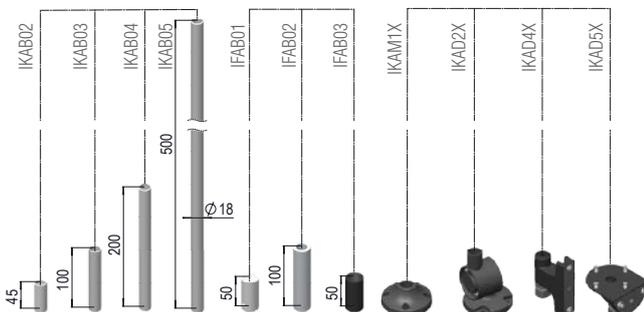
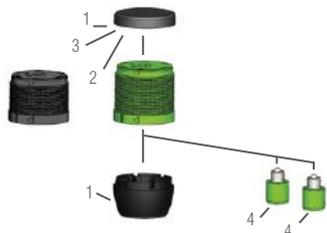
| Code         | Illumination | Buzzer |
|--------------|--------------|--------|
| IK70X * ZM01 | -            | 90 dB  |
| IK71L * ZM01 | LED          | 90 dB  |
| IK72L * ZM01 | LED          | 90 dB  |
| IK73L * ZM01 | LED          | 90 dB  |
| IK74L * ZM01 | LED          | 90 dB  |

| Code         | Illumination      | Buzzer |
|--------------|-------------------|--------|
| IK70X * ZM01 | -                 | 90 dB  |
| IK71F * ZM01 | with Flashing LED | 90 dB  |
| IK72F * ZM01 | with Flashing LED | 90 dB  |
| IK73F * ZM01 | with Flashing LED | 90 dB  |
| IK74F * ZM01 | with Flashing LED | 90 dB  |

\* Shows the voltage of the LED. When it is written "024", it means that it is 24V AC/DC, when written "220" it is 220VAC, "110" it is 110V AC. For IP65 please add E letter to the end of the code. (Excluding buzzer versions)

### Each Light Tower consists of below components.

1. Body and Cover
2. Signal Modules (5 Colour)
3. Buzzer module
4. LED, Flashing LED
5. Connection



## MODULES

### 1-Body and Cover

IKM5G Dia 50 mm

\* Maximum up to 5 modules can be mounted



### 1-Body and Cover

IKM7G Dia 70mm

\* Maximum up to 5 modules can be mounted



### 2- Signal Modules

IKM5\* 50 mm

Heat resistant polycarbonate material  
(\* ) B M S Y K



### 2- Signal Modules

IKM7\* 70 mm

Heat resistant polycarbonate material  
(\* ) B M S Y K



### 3- Buzzer Modules

IKM5Z024  
50 mm / 90 dB  
IKM5Z110  
50 mm / 90 dB  
IKM5Z220  
50 mm / 90 dB



### 3- Buzzer Modules

IKM7Z024  
70 mm / 90 dB  
IKM7Z110  
70 mm / 90 dB  
IKM7Z220  
70 mm / 90 dB



## 4- Lamps

| Nominal Voltage | with LED | Colour              |
|-----------------|----------|---------------------|
| 24V AC/DC       | IKML024* | (B) (K) (Y) (S) (M) |
| 110V AC         | IKML110* | (B) (K) (Y) (S) (M) |
| 220V AC         | IKML220* | (B) (K) (Y) (S) (M) |

| Nominal Voltage | with Flashing LED | Colour              |
|-----------------|-------------------|---------------------|
| 24V AC/DC       | IKMF024*          | (B) (K) (Y) (S) (M) |
| 110V AC         | IKMF110*          | (B) (K) (Y) (S) (M) |
| 220V AC         | IKMF220*          | (B) (K) (Y) (S) (M) |

Please choose the color instead of (\*) i.e. IKML024Y  
Note. One lamp should be added for each Signal module.



IKML024K



IKML110Y

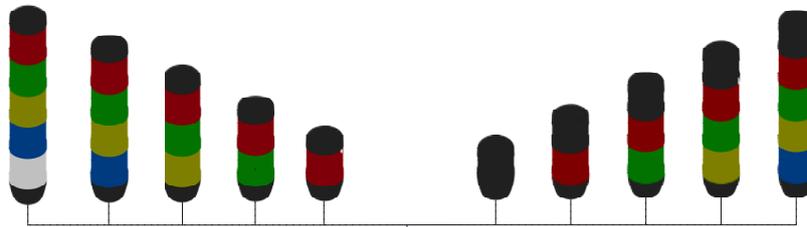


IKML220M



IKMF024S

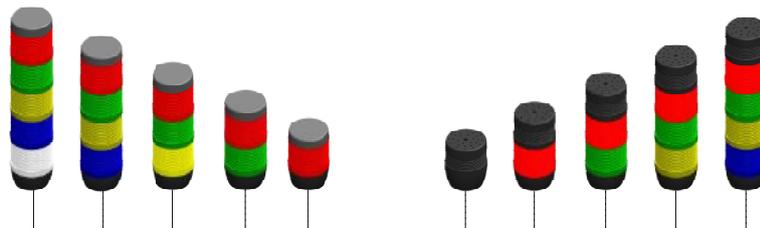
## IK General Mounting



IK5\*\*\*\*X\*\*\*

IK5\*\*\*\*Z\*\*\* (With Buzzer)

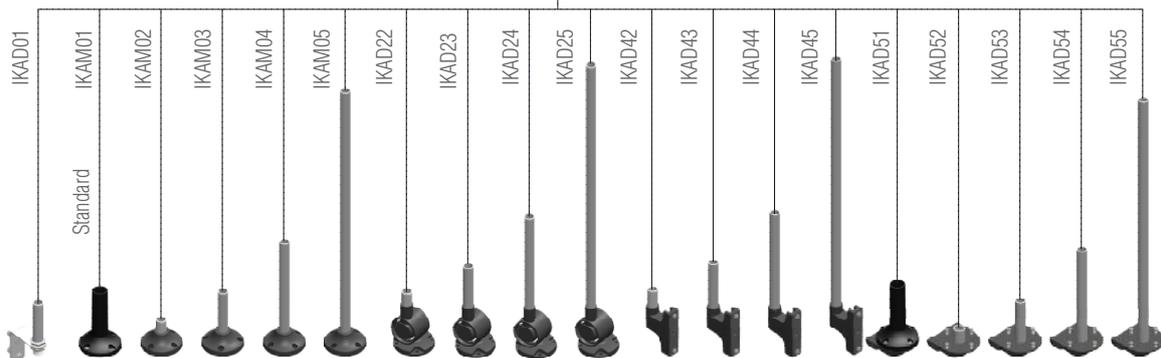
Instead of "xxx" end of the page, write down three letter of below codes.



IK7\*\*\*\*X\*\*\*

IK7\*\*\*\*Z\*\*\* (With Buzzer)

Instead of "xxx" end of the page, write down three letter of below codes.



## IF Series Multi Colour Beacons with Ø 22 mm connection, IP65



### IF Series

- Single body, multi colour
- Ø22 mm Connection
- Flashing and normal LED mode available in same module.
- 90 dB Buzzer



IF3P0240S30-1



IF3P024MS30-1



IF5T024ZM05



IF5M220ZM05



IF6P024WM05

| Code          | Illumination | Features  | Nominal Voltage | Box/Pcs |
|---------------|--------------|---|-----------------|---------|
| IF3P0240S30-1 | LED          | Without Buzzer, Diamond Shape, 5 Colours, for PNP Application   | 24V DC          | 1       |
| IF3N0240S30-1 | LED          | Without Buzzer, Diamond Shape, 5 Colours, for NPN Application   | 24V DC          | 1       |
| IF3P024MS30-1 | LED          | Without Buzzer, Round Shape, 5 Colours, for PNP Application     | 24V DC          | 1       |
| IF3N024MS30-1 | LED          | Without Buzzer, Round Shape, 5 Colours, for NPN Application     | 24V DC          | 1       |
| IF5*024XM05   | LED          | Single Colour   | 24V AC/DC       | 1       |
| IF5*024XM05   | LED          | Single Colour , Rotational                                      | 24V AC/DC       | 1       |
| IF5*024ZM05   | LED          | Single Colour , With Buzzer                                     | 24V AC/DC       | 1       |
| IF5*024ZRM05  | LED          | Single Colour , With Buzzer, Rotational                         | 24V AC/DC       | 1       |
| IF5*220XM05   | LED          | Single Colour   | 220V AC         | 1       |
| IF5*220XRM05  | LED          | Single Colour , Rotational                                      | 220V AC         | 1       |
| IF5*220ZM05   | LED          | Single Colour , With Buzzer                                     | 220V AC         | 1       |
| IF5*220ZRM05  | LED          | Single Colour , With Buzzer, Rotational                         | 220V AC         | 1       |
| IF5M012XM05   | LED          | 5 Colours   | 12V AC/DC       | 1       |
| IF5M012ZM05   | LED          | 5 Colours, With Buzzer  | 12V AC/DC       | 1       |
| IF5M024XM05   | LED          | 5 Colours   | 24V AC/DC       | 1       |
| IF5M024ZM05   | LED          | 5 Colours, With Buzzer  | 24V AC/DC       | 1       |
| IF5M110XM05   | LED          | 5 Colours   | 110V AC         | 1       |
| IF5M110ZM05   | LED          | 5 Colours, With Buzzer  | 110V AC         | 1       |
| IF5M220XM05   | LED          | 5 Colours   | 220V AC         | 1       |
| IF5M220ZM05   | LED          | 5 Colours, With Buzzer  | 220V AC         | 1       |
| IF5P024XM05   | LED          | Single Module 5 Colours, for PNP application                    | 24V DC          | 1       |
| IF5P024ZM05   | LED          | Single Module 5 Colours, for PNP application, with Buzzer       | 24V DC          | 1       |
| IF5N024XM05   | LED          | Single Module 5 Colours, for NPN application                    | 24V DC          | 1       |
| IF5N024ZM05   | LED          | Single Module 5 Colours for NPN application, with Buzzer        | 24V DC          | 1       |
| IF5T024XM05   | LED          | 3 Layers in Single Body, 3 Colours , PLC Harmonized             | 24V DC          | 1       |
| IF5T024ZM05   | LED          | 3 Layers in Single Body, 3 Colours , PLC Harmonized+with Buzzer | 24V DC          | 1       |
| IF6P024WM05   | LED          | PLC Harmonized, 5 Colours, with Self-Adjusted Buzzer**          | 24V DC          | 1       |

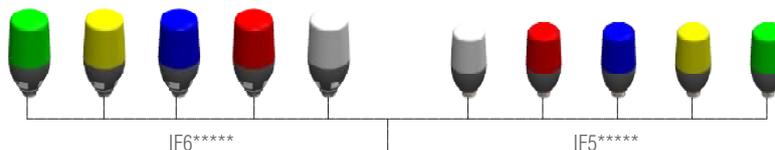
Note: For base options, please choose metal bases from page 70. Should be used with IFAB01 or IFAB03.

\* Single Colour

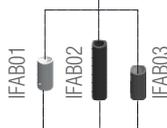
\*\* If the environment noise is less than 80dB the beacon will sound at 90dB. If the environment noise is greater than 80dB the beacon automatically changes the sound to 105dB.

R: Red, G: Green, Y: Yellow, B: Blue, W: White

## IF General Mounting



Instead of "xxx" end of the page, write down three letter of below codes.



IF and IK Series Mounting Options IP 65

| Code   | Features  |
|--------|---|
| IKAM01 | 100 mm Plastic base   |
| IKAM1X | Connection to base  |
| IKAM02 | Connection to base with 10 mm tube                                  |
| IKAM03 | Connection to base with 100 mm tube                                 |
| IKAM04 | Connection to base with 200 mm tube                                 |
| IKAM05 | Connection to base with 500 mm tube                                 |
| IKAD01 | Wall Connection, 100 mm Aluminium tube                              |
| IKAD2X | Adjustable wall elbow   |
| IKAD22 | Adjustable Wall Elbow with 10 mm tube                               |
| IKAD23 | Adjustable Wall Elbow with 100 mm tube                              |
| IKAD24 | Adjustable Wall Elbow with 200 mm tube                              |
| IKAD25 | Adjustable Wall Elbow with 500 mm tube                              |
| IKAD4X | Wall connection with - Bottom Entry ( with cable gland )            |
| IKAD42 | Wall connection, bottom entry ( with cable gland ) with 10 mm tube  |
| IKAD43 | Wall connection, bottom entry ( with cable gland ) with 100 mm tube |
| IKAD44 | Wall connection, bottom entry ( with cable gland ) with 200 mm tube |
| IKAD45 | Wall connection, bottom entry ( with cable gland ) with 500 mm tube |
| IKAD5X | Wall connection with base - Bottom Entry ( with cable gland )       |
| IKAD52 | Wall connection, bottom entry ( with cable gland ) with 10 mm tube  |
| IKAD53 | Wall connection, bottom entry ( with cable gland ) with 100 mm tube |
| IKAD54 | Wall connection, bottom entry ( with cable gland ) with 200 mm tube |
| IKAD55 | Wall connection, bottom entry ( with cable gland ) with 500 mm tube |
| IKAB02 | 45 mm tube  |
| IKAB03 | 100 mm tube   |
| IKAB04 | 200 mm tube   |
| IKAB05 | 500 mm tube   |
| IFAB01 | Base Adaptation Part ( 50mm)  |
| IFAB02 | Base Adaptation Part ( 100mm)                                       |
| IFAB03 | Base Adaptation Part-Black (100 mm)                                 |



IFAB01



IFAB03

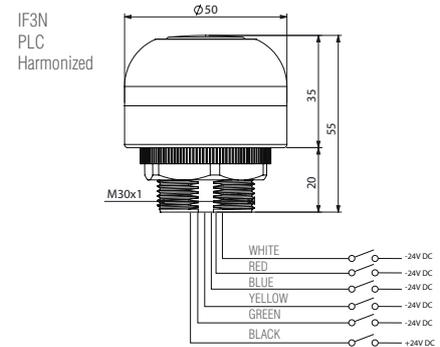
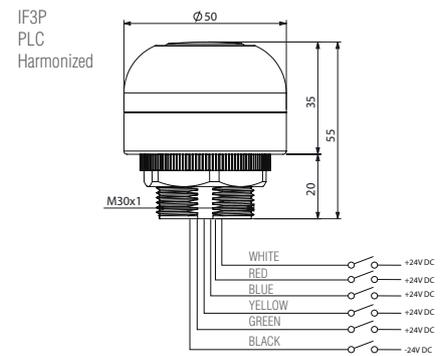
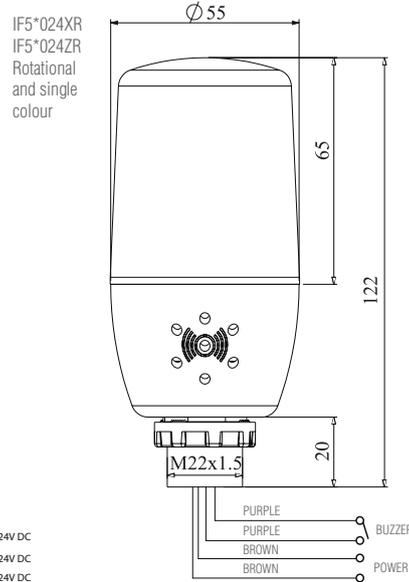
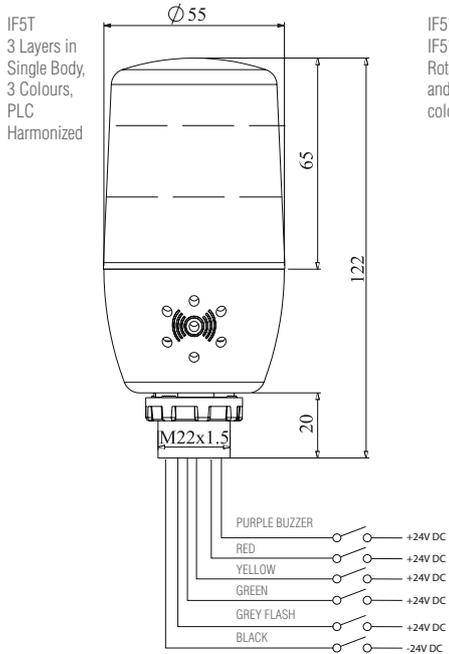
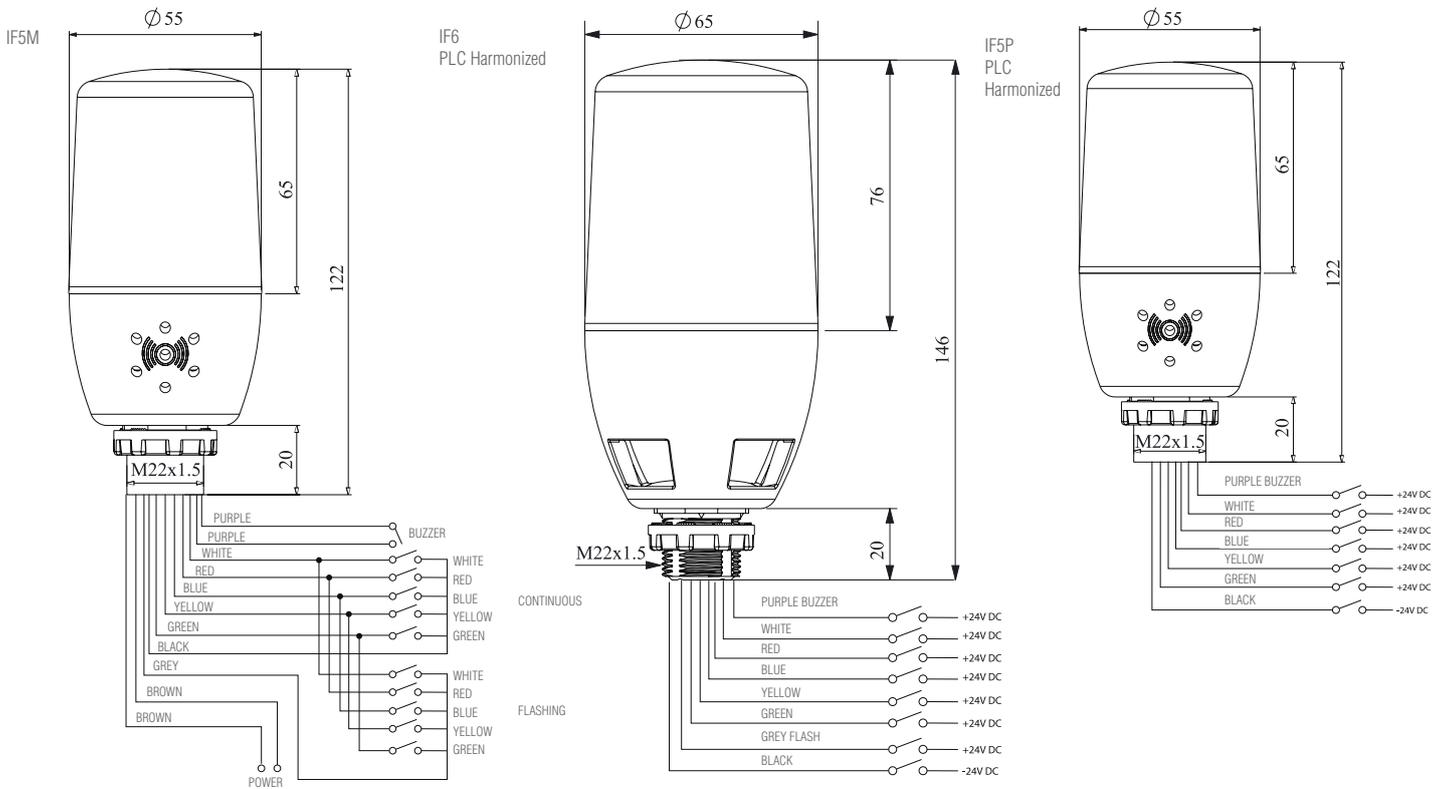


IKAM02



IKAD22

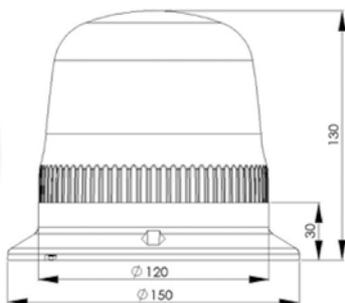
## IF Series Multi Colour Beacons with $\varnothing 22$ mm Connection, IP65



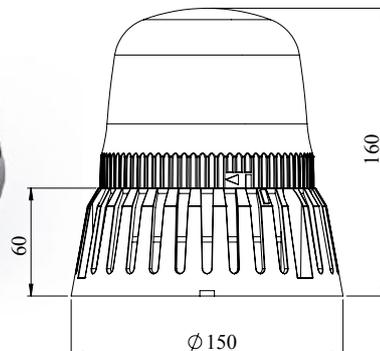
## IT Series, IP65



IT120R024



IT120R024Z



### Beacon

#### General Specification;

- Fireproof plastic body
- Polycarbonate lens
- Base and wall-mount
- Unaffected by water, dust, heat and UV.
- Wear-free due to the absence of moving components
- Long life
- Melody and Silent mode. (for Buzzer models)
- 7 LED modes
- IP 65 rating

#### Technical Specification;

- Operating Voltage: 12-24V AC/DC, 48-110- 220V AC,
- Current consumption: 3,4W (at 24 V DC by rotating mode)
- Operating temperature: -20 / +50 C°
- Storage temperature: -20 / +70 C°
- 105dB Buzzer

### Modes

- Rotation 100 RPM :
- Rotation 160 RPM :
- Single Blink
- 3 Blink
- 6 Blink
- Right-Left Blink
- Blinker



IT070R024Z

| Code       | Light | Colour | Features      | Voltage       | Box/Pcs |
|------------|-------|--------|---------------|---------------|---------|
| IT070R024Z | Led   | R      | With Buzzer   | 12-24V AC/DC  | 1       |
| IT070R240Z | Led   | R      | With Buzzer   | 48-240V AC/DC | 1       |
| IT070Y024Z | Led   | Y      | With Buzzer   | 12-24V AC/DC  | 1       |
| IT070Y240Z | Led   | Y      | With Buzzer   | 48-240V AC/DC | 1       |
| IT070G024Z | Led   | G      | With Buzzer   | 12-24V AC/DC  | 1       |
| IT070G240Z | Led   | G      | With Buzzer   | 48-240V AC/DC | 1       |
| IT070R024C | Led   | R      | Buzzer Enable | 12-24V AC/DC  | 1       |
| IT070R230C | Led   | R      | Buzzer Enable | 230V AC       | 1       |
| IT120R024  | Led   | R      |               | 12-24V AC/DC  | 1       |
| IT120R024Z | Led   | R      | With Buzzer   | 12-24V AC/DC  | 1       |
| IT120R048  | Led   | R      |               | 48V AC        | 1       |
| IT120R220  | Led   | R      |               | 110-220V AC   | 1       |
| IT120R220Z | Led   | R      | With Buzzer   | 110-220V AC   | 1       |
| IT120Y024  | Led   | Y      |               | 12-24V AC/DC  | 1       |
| IT120Y024Z | Led   | Y      | With Buzzer   | 12-24V AC/DC  | 1       |
| IT120Y048  | Led   | Y      |               | 48V AC        | 1       |
| IT120Y220  | Led   | Y      |               | 110-220V AC   | 1       |
| IT120Y220Z | Led   | Y      | With Buzzer   | 110-220V AC   | 1       |
| IT120G024  | Led   | G      |               | 12-24V AC/DC  | 1       |
| IT120G024Z | Led   | G      | With Buzzer   | 12-24V AC/DC  | 1       |
| IT120G048  | Led   | G      |               | 48V AC        | 1       |
| IT120G220  | Led   | G      |               | 110-220V AC   | 1       |
| IT120G220Z | Led   | G      | With Buzzer   | 110-220V      | 1       |

Note: Please add "C" letter at the end of the code in order to have buzzer as optional for \*IT070 type beacons.



SSY11



MKS1TM-0.40



TSP-1,6



MKS1-KES

# Motor Protection Circuit Breakers



MKS1TM-0.40

## Thermic & Magnetic Protection

| Code        | Current Calibration Interval (A) | Fuse Selection Table (A) |      |      |      | Switching Capacity (kA) |      |      |      | Box/Pcs |
|-------------|----------------------------------|--------------------------|------|------|------|-------------------------|------|------|------|---------|
|             |                                  | 230V                     | 400V | 500V | 690V | 230V                    | 400V | 500V | 690V |         |
| MKS1TM-0.16 | 0.10 - 0.16                      | -                        | -    | -    | -    | 100                     | 100  | 100  | 100  | 1       |
| MKS1TM-0.25 | 0.16 - 0.25                      | -                        | -    | -    | -    | 100                     | 100  | 100  | 100  | 1       |
| MKS1TM-0.40 | 0.25 - 0.40                      | -                        | -    | -    | -    | 100                     | 100  | 100  | 100  | 1       |
| MKS1TM-0.63 | 0.40 - 0.63                      | -                        | -    | -    | -    | 100                     | 100  | 100  | 100  | 1       |
| MKS1TM-1    | 0.63 - 1.00                      | -                        | -    | -    | -    | 100                     | 100  | 100  | 100  | 1       |
| MKS1TM-1.6  | 1.00 - 1.60                      | -                        | -    | -    | -    | 6                       | 6    | 3    | 2,5  | 1       |
| MKS1TM-2.5  | 1.60 - 2.50                      | -                        | -    | 25   | 20   | 6                       | 6    | 3    | 2,5  | 1       |
| MKS1TM-4    | 2.50 - 4.00                      | -                        | -    | 35   | 25   | 6                       | 6    | 3    | 2,5  | 1       |
| MKS1TM-6.3  | 4.00 - 6.30                      | -                        | -    | 50   | 35   | 6                       | 6    | 2,5  | 2    | 1       |
| MKS1TM-10   | 6.30 - 10.0                      | -                        | 80   | 50   | 35   | 6                       | 6    | 2,5  | 2    | 1       |
| MKS1TM-16   | 10.0 - 16.0                      | 80                       | 80   | 63   | 35   | 6                       | 6    | 2,5  | 2    | 1       |
| MKS1TM-20   | 16.0 - 20.0                      | 80                       | 80   | 63   | 50   | 6                       | 6    | 2,5  | 2    | 1       |
| MKS1TM-25   | 20.0 - 25.0                      | 80                       | 80   | 63   | 50   | 6                       | 6    | 2,5  | 2    | 1       |

## Thermic & Magnetic Protection Boxes



MKS1-K

### MKS-Box Type

| Code         | Current Calibration Interval (A) | Mounting | Button Case | Box/Pcs |
|--------------|----------------------------------|----------|-------------|---------|
| MKS1TMK-0.16 | 0.10 - 0.16                      | Surface  | IP65        | 1       |
| MKS1TMK-0.25 | 0.16 - 0.25                      | Surface  | IP65        | 1       |
| MKS1TMK-0.40 | 0.25 - 0.40                      | Surface  | IP65        | 1       |
| MKS1TMK-0.63 | 0.40 - 0.63                      | Surface  | IP65        | 1       |
| MKS1TMK-1    | 0.63 - 1.00                      | Surface  | IP65        | 1       |
| MKS1TMK-1.6  | 1.00 - 1.60                      | Surface  | IP65        | 1       |
| MKS1TMK-2.5  | 1.60 - 2.50                      | Surface  | IP65        | 1       |
| MKS1TMK-4    | 2.50 - 4.00                      | Surface  | IP65        | 1       |
| MKS1TMK-6.3  | 4.00 - 6.30                      | Surface  | IP65        | 1       |
| MKS1TMK-10   | 6.30 - 10.0                      | Surface  | IP65        | 1       |
| MKS1TMK-16   | 10.0 - 16.0                      | Surface  | IP65        | 1       |
| MKS1TMK-20   | 16.0 - 20.0                      | Surface  | IP65        | 1       |
| MKS1TMK-25   | 20.0 - 25.0                      | Surface  | IP65        | 1       |



MKS1-KES

### Accessories

| Code       | Type                 | Features                              | Box/Pcs |
|------------|----------------------|---------------------------------------|---------|
| MKS1-K     | MKS Box              | Empty                                 | 1       |
| MKS1-KE    | MKS Box              | With Emergency Stop Button            | 1       |
| MKS1-KES   | MKS Box              | With Emergency Stop Button and Signal | 1       |
| MKS1-YKD00 | Auxiliary Contact    | 2 NC                                  | 4       |
| MKS1-YKD01 | Auxiliary Contact    | 1 NO + 1 NC                           | 4       |
| MKS1-YKD11 | Auxiliary Contact    | 2 NO                                  | 4       |
| MKS1-DGR-4 | Undervoltage Release | 110V                                  | 1       |
| MKS1-DGR-5 | Undervoltage Release | 220V                                  | 1       |
| MKS1-DGR-6 | Undervoltage Release | 400V                                  | 1       |
| MKS1-AR-5  | Shunt Release        | 220V                                  | 1       |
| MKS1-AR-6  | Shunt Release        | 400V                                  | 1       |



MKS1-YKD00



MKS1-DGR-5



SSY11

### Cylindrical Fuse Housing

| Code   | Number of Poles | Cylindrical Fuse(mm) | Box/Pcs |
|--------|-----------------|----------------------|---------|
| SSY11  | 1P              | 10 x 38              | 10      |
| SSY11N | 1P+N            | 10 x 38              | 5       |
| SSY12  | 2P              | 10 x 38              | 5       |
| SSY13  | 3P              | 10 x 38              | 3       |
| SSY13N | 3P+N            | 10 x 38              | 3       |

## Thermic Protection



TSP-0.32

| <b>TSP-with Box</b> |                                  |          |            |         |
|---------------------|----------------------------------|----------|------------|---------|
| Code                | Current Calibration Interval (A) | Mounting | Protection | Box/Pcs |
| TSP-0.32            | 0.18 - 0.32                      | Surface  | IP65       | 1       |
| TSP-0.55            | 0.30 - 0.55                      | Surface  | IP65       | 1       |
| TSP-0.70            | 0.40 - 0.70                      | Surface  | IP65       | 1       |
| TSP-1.00            | 0.60 - 1.00                      | Surface  | IP65       | 1       |
| TSP-1.60            | 0.90 - 1.60                      | Surface  | IP65       | 1       |
| TSP-2.50            | 1.50 - 2.50                      | Surface  | IP65       | 1       |
| TSP-3.50            | 2.40 - 3.50                      | Surface  | IP65       | 1       |
| TSP-5.50            | 3.20 - 5.50                      | Surface  | IP65       | 1       |
| TSP-8.50            | 5.00 - 8.50                      | Surface  | IP65       | 1       |
| TSP-13.0            | 8.00 - 13.00                     | Surface  | IP65       | 1       |
| TSP-16.0            | 11.00 - 16.00                    | Surface  | IP65       | 1       |



TSG-0.32

| <b>TSG-Flush Type</b> |                                  |          |            |         |
|-----------------------|----------------------------------|----------|------------|---------|
| Code                  | Current Calibration Interval (A) | Mounting | Protection | Box/Pcs |
| TSG-0.32              | 0.18 - 0.32                      | Flush    | IP65       | 1       |
| TSG-0.55              | 0.30 - 0.55                      | Flush    | IP65       | 1       |
| TSG-0.70              | 0.40 - 0.70                      | Flush    | IP65       | 1       |
| TSG-1.00              | 0.60 - 1.00                      | Flush    | IP65       | 1       |
| TSG-1.60              | 0.90 - 1.60                      | Flush    | IP65       | 1       |
| TSG-2.50              | 1.50 - 2.50                      | Flush    | IP65       | 1       |
| TSG-3.50              | 2.40 - 3.50                      | Flush    | IP65       | 1       |
| TSG-5.50              | 3.20 - 5.50                      | Flush    | IP65       | 1       |
| TSG-8.50              | 5.00 - 8.50                      | Flush    | IP65       | 1       |
| TSG-13.0              | 8.00 - 13.00                     | Flush    | IP65       | 1       |
| TSG-16.0              | 11.00 - 16.00                    | Flush    | IP65       | 1       |



SKF

# Level Control Float Switches



SKF

| <b>Cobra</b> |       |                  |
|--------------|-------|------------------|
| Code         | Poles | Cable Length (m) |
| SKF-0.5      | 1     | 0,50             |
| SKF          | 1     | 1,75             |
| SKF-3        | 1     | 3                |
| SKF-5        | 1     | 5                |
| SKF-10       | 1     | 10               |
| SKF-15       | 1     | 15               |
| SKF-20       | 1     | 20               |
| SKF-35       | 1     | 35               |



SKF1A

| <b>Bulb</b> |       |                  |
|-------------|-------|------------------|
| Code        | Poles | Cable Length (m) |
| SKF1A-1*    | 1     | 1                |
| SKF1A*      | 1     | 1,75             |
| SKF1A-3*    | 1     | 3                |
| SKF1A-5*    | 1     | 5                |
| SKF1A-10*   | 1     | 10               |
| SKF1A-15*   | 1     | 15               |
| SKF1A-20*   | 1     | 20               |
| SKF1A-30*   | 1     | 30               |

\* For Neoprene cable, please add "N" letter to end of the code (Please ask prices)



SK5P

| <b>Switch Actuated</b> |                |                 |
|------------------------|----------------|-----------------|
| Code                   | Remote Control | Stainless Float |
| SK5P                   | √              |                 |

HJ12X09UB



HNY11



HJ11A09UG

# Contactors

## HN Series Contactors



HN0901NU



HN1301NU



HN40NU

| Code     | Rated Current (A)<br>380V AC3 | Rated Thermal Current (A) I <sub>th</sub> | Auxiliary Contacts | Power (kW) |          |      | Box/Pcs |
|----------|-------------------------------|---|--------------------|------------|----------|------|---------|
|          |                               |   |                    | 220-240V   | 380-415V | 660V |         |
| HN0901N* | 9                             | 20  | 1 NC               | 2,2        | 4        | 4,5  | 1       |
| HN0910N* | 9                             | 20  | 1 NO               | 2,2        | 4        | 4,5  | 1       |
| HN1301N* | 13                            | 20  | 1 NC               | 3,2        | 6        | 6,5  | 1       |
| HN1310N* | 13                            | 20  | 1 NO               | 3,2        | 6        | 6,5  | 1       |
| HN1701N* | 17                            | 30  | 1 NC               | 4          | 7,5      | 8,5  | 1       |
| HN1710N* | 17                            | 30  | 1 NO               | 4          | 7,5      | 8,5  | 1       |
| HN2501N* | 25                            | 30  | 1 NC               | 6          | 11       | 12,5 | 1       |
| HN2510N* | 25                            | 30  | 1 NO               | 6          | 11       | 12,5 | 1       |
| HN33N*   | 33                            | 45  |                    | 7,5        | 15       | 18,5 | 1       |
| HN40N*   | 40                            | 45  |                    | 11         | 22       | 30   | 1       |



HNMK1



HNYU22



HNYYB11

### Accessories

| Code    | Features                        | Contact Block | Box/Pcs |
|---------|---------------------------------|---------------|---------|
| HNMK1   | 9-13 A Mechanical Interlock     |               | 1       |
| HNYU04  | 9-65 A Auxiliary Contact Block  | 4 NC          | 1       |
| HNYU40  | 9-65 A Auxiliary Contact Block  | 4 NO          | 1       |
| HNYU13  | 9-65 A Auxiliary Contact Block  | 1 NO + 3 NC   | 1       |
| HNYU31  | 9-65 A Auxiliary Contact Block  | 3 NO + 1 NC   | 1       |
| HNYU22  | 9-65 A Auxiliary Contact Block  | 2 NO + 2 NC   | 1       |
| HNYU20  | 9-65 A Auxiliary Contact Block  | 2 NO          | 1       |
| HNYU02  | 9-65 A Auxiliary Contact Block  | 2 NC          | 1       |
| HNYU11  | 9-65 A Auxiliary Contact Block  | 1 NO + 1 NC   | 1       |
| HNYYB11 | 17-65 A Auxiliary Contact Block | 1 NO + 1 NC   | 5       |

### Contactors Coil

| Code  | Features  | Box/Pcs |
|-------|-----------|---------|
| IH13* | HN09-HN13 | 1       |
| IH25* | HN17-HN40 | 1       |

\* For Voltage selection, please use below codes.



IH13U

| Code | Voltage             |
|------|---------------------|
| B    | 440V / 50 HZ        |
| C    | 366V / 50 HZ        |
| D    | 110-115V / 50-60 HZ |
| F    | 24V / 50-60 HZ      |
| G    | 48V / 50HZ          |
| U    | 220-230V / 50-60 HZ |
| W    | 380-400V / 50-60 HZ |
| X    | 220-240V / 50 HZ    |
| Z    | 480-500V / 50 HZ    |

## Thermal Relay



JA25A

| Code  | Current Calibration Interval (A) | Box/Pcs |
|-------|----------------------------------|---------|
| JA25A | 0.15 - 0.25                      | 1       |
| JA25B | 0.22 - 0.33                      | 1       |
| JA25C | 0.30 - 0.45                      | 1       |
| JA25D | 0.42 - 0.63                      | 1       |
| JA25E | 0.60 - 0.90                      | 1       |
| JA25F | 0.85 - 1.27                      | 1       |
| JA25G | 1.20 - 1.75                      | 1       |
| JA25H | 1.70 - 2.60                      | 1       |
| JA25I | 2.50 - 3.70                      | 1       |
| JA25L | 3.60 - 5.40                      | 1       |
| JA25M | 5.30 - 7.50                      | 1       |
| JA25N | 7.30 - 10.2                      | 1       |
| JA25O | 10.0 - 15.0                      | 1       |
| JA25P | 13.5 - 20.0                      | 1       |
| JA25Q | 18.0 - 26.0                      | 1       |

## Direct Starters with Contactor and Thermal Relay



HJ12X09UB

### HJ12- HJ22 with Box

| Code       | Type                             | Current Calibration Interval (A) | Contactor Rated Current (A) 380V | Power (kW) 380 - 415V | Box Size |
|------------|----------------------------------|----------------------------------|----------------------------------|-----------------------|----------|
| HJ12X09UA  | Box with Start and Reset Buttons | 0.15 - 0.25                      | 9                                | 0,06                  | 2. Boy   |
| HJ12X09UB* | Box with Start and Reset Buttons | 0.22 - 0.33                      | 9                                | 0,09                  | 2. Boy   |
| HJ12X09UC* | Box with Start and Reset Buttons | 0.30 - 0.45                      | 9                                | 0,12                  | 2. Boy   |
| HJ12X09UD* | Box with Start and Reset Buttons | 0.42 - 0.63                      | 9                                | 0,15                  | 2. Boy   |
| HJ12X09UE* | Box with Start and Reset Buttons | 0.60 - 0.90                      | 9                                | 0,24                  | 2. Boy   |
| HJ12X09UF* | Box with Start and Reset Buttons | 0.85 - 1.27                      | 9                                | 0,37                  | 2. Boy   |
| HJ12X09UG* | Box with Start and Reset Buttons | 1.20 - 1.75                      | 9                                | 0,55                  | 2. Boy   |
| HJ12X09UH* | Box with Start and Reset Buttons | 1.70 - 2.60                      | 9                                | 1,1                   | 2. Boy   |
| HJ12X09UI* | Box with Start and Reset Buttons | 2.50 - 3.70                      | 9                                | 1,5                   | 2. Boy   |
| HJ12X09UL* | Box with Start and Reset Buttons | 3.60 - 5.40                      | 9                                | 2,2                   | 2. Boy   |
| HJ12X09UM* | Box with Start and Reset Buttons | 5.30 - 7.50                      | 9                                | 3                     | 2. Boy   |
| HJ12X13UN* | Box with Start and Reset Buttons | 7.30 - 10.2                      | 13                               | 4                     | 2. Boy   |
| HJ22X17UO* | Box with Start and Reset Buttons | 10.0 - 15.0                      | 17                               | 5,5                   | 4. Boy   |
| HJ22X25UP* | Box with Start and Reset Buttons | 13.5 - 20.0                      | 25                               | 7,5                   | 4. Boy   |
| HJ22X25UQ* | Box with Start and Reset Buttons | 18.0 - 26.0                      | 25                               | 11                    | 4. Boy   |

\* If you require Signal included in the box, you can put "S" to end of the code. In that case, S100NK's Signal price will be added.

### HJ11- HJ 21 with Box



HJ11A09UG

| Code      | Type  | Current Calibration Interval (A) | Contactor Rated Current (A) 380V | Power (kW) 380 - 415V | Box Size |
|-----------|---|----------------------------------|----------------------------------|-----------------------|----------|
| HJ11A09UG | with illuminated on-off switch + with reset button + with 10 mm Signal lamp | 1.20 - 1.75                      | 9                                | 0.55                  | 1. Size  |
| HJ11A09UH |   | 1.70 - 2.60                      | 9                                | 1.10                  | 1. Size  |
| HJ11A09UI |   | 2.50 - 3.70                      | 9                                | 1.50                  | 1. Size  |
| HJ11A09UL |   | 3.60 - 5.40                      | 9                                | 2.20                  | 1. Size  |
| HJ11A09UM |   | 5.30 - 7.50                      | 9                                | 3.00                  | 1. Size  |
| HJ11A13UN |   | 7.30 - 10.2                      | 13                               | 4.00                  | 1. Size  |
| HJ21A17UO |   | 10.0 - 15.0                      | 17                               | 5,50                  | 3. Size  |
| HJ21A25UP |   | 13.5 - 20.0                      | 25                               | 7,50                  | 3. Size  |
| HJ21A25UQ |   | 18.0 - 26.0                      | 25                               | 11.00                 | 3. Size  |

### Empty Box

| Code | Type    | Box/Pcs |
|------|---------|---------|
| HJ11 | 1. Size | 1       |
| HJ12 | 2. Size | 1       |
| HJ21 | 3. Size | 1       |
| HJ22 | 4. Size | 1       |

RE1P08DC024



RS1P08G1

# Industrial Relays & Sockets



RE1P08DC024

| <b>Industrial Relays</b> |                |              |                       |         |
|--------------------------|----------------|--------------|-----------------------|---------|
| Code                     | Number of Pins | Coil Voltage | Number of Contacts    | Box/Pcs |
| RE1P08AC012              | 8 pins         | 12V AC       | 2 Changeover Contacts | 25      |
| RE1P08AC024              | 8 pins         | 24V AC       | 2 Changeover Contacts | 25      |
| RE1P08AC048              | 8 pins         | 48V AC       | 2 Changeover Contacts | 25      |
| RE1P08AC110              | 8 pins         | 110V AC      | 2 Changeover Contacts | 25      |
| RE1P08AC220              | 8 pins         | 230V AC      | 2 Changeover Contacts | 25      |
| RE1P08DC012              | 8 pins         | 12V DC       | 2 Changeover Contacts | 25      |
| RE1P08DC024              | 8 pins         | 24V DC       | 2 Changeover Contacts | 25      |
| RE1P08DC048              | 8 pins         | 48V DC       | 2 Changeover Contacts | 25      |
| RE1P08DC110              | 8 pins         | 110V DC      | 2 Changeover Contacts | 25      |
| RE1P11AC012              | 11 pins        | 12V AC       | 3 Changeover Contacts | 25      |
| RE1P11AC024              | 11 pins        | 24V AC       | 3 Changeover Contacts | 25      |
| RE1P11AC048              | 11 pins        | 48V AC       | 3 Changeover Contacts | 25      |
| RE1P11AC110              | 11 pins        | 110V AC      | 3 Changeover Contacts | 25      |
| RE1P11AC220              | 11 pins        | 230V AC      | 3 Changeover Contacts | 25      |
| RE1P11DC012              | 11 pins        | 12V DC       | 3 Changeover Contacts | 25      |
| RE1P11DC024              | 11 pins        | 24V DC       | 3 Changeover Contacts | 25      |
| RE1P11DC048              | 11 pins        | 48V DC       | 3 Changeover Contacts | 25      |
| RE1P11DC110              | 11 pins        | 110V DC      | 3 Changeover Contacts | 25      |



RS1P08G1

| <b>Relay Sockets</b> |                |         |         |  |
|----------------------|----------------|---------|---------|--|
| Code                 | Number of Pins | Colour* | Box/Pcs |  |
| RS1P08*1             | 8 pins         | M H G   | 10      |  |
| RS1P11*1             | 11 pins        | M H G   | 10      |  |

\*Colour; M: Blue, H: Black, G: Grey



SSS4X



SSRR1EA012

RZ4D1S208K



RZ4A3M708P



RZ1A1A12S-25



RR3MP1N



RR3VP02



SSRP1DB012



RZ3A1A30S2

# Electronic Products

## Solid State Relays



SSRP1DB040



SSRP1DA025



SSRR1EA012

| Code       | Control Voltage | Mounting   | Phase   | Load Voltage Range | Max Load Current | Box/Pcs |
|------------|-----------------|------------|---------|--------------------|------------------|---------|
| SSRP1DA012 | 4 - 32 VDC      | Base Mount | 1 Phase | 24-320V AC         | 12A              | 1       |
| SSRP1DA025 | 4 - 32 VDC      | Base Mount | 1 Phase | 24-320V AC         | 25A              | 1       |
| SSRP1DA040 | 4 - 32 VDC      | Base Mount | 1 Phase | 24-320V AC         | 40A              | 1       |
| SSRP1DB012 | 4 - 32 VDC      | Base Mount | 1 Phase | 50-480V AC         | 12A              | 1       |
| SSRP1DB025 | 4 - 32 VDC      | Base Mount | 1 Phase | 50-480V AC         | 25A              | 1       |
| SSRP1DB040 | 4 - 32 VDC      | Base Mount | 1 Phase | 50-480V AC         | 40A              | 1       |
| SSRP1DC050 | 4 - 32 VDC      | Base Mount | 1 Phase | 50-640V AC         | 50A              | 1       |
| SSRP1DC070 | 4 - 32 VDC      | Base Mount | 1 Phase | 50-640V AC         | 70A              | 1       |
| SSRP1DC100 | 4 - 32 VDC      | Base Mount | 1 Phase | 50-640V AC         | 100A             | 1       |
| SSRP1DC120 | 4 - 32 VDC      | Base Mount | 1 Phase | 50-640V AC         | 120A             | 1       |
| SSRR1EA012 | 8-30V AC/DC     | Rail Type  | 1 Phase | 24-320V AC         | 12A              | 1       |
| SSRR1EA025 | 8-30V AC/DC     | Rail Type  | 1 Phase | 24-320V AC         | 25A              | 1       |
| SSRR1EB012 | 8-30V AC/DC     | Rail Type  | 1 Phase | 50-480V AC         | 12A              | 1       |
| SSRR1EB025 | 8-30V AC/DC     | Rail Type  | 1 Phase | 50-480V AC         | 25A              | 1       |



SSS1X



SSS4X



SSS5F

## SSS Series Solid State Heat Sinks

| Code  | Installation | Dimension    | Suitable Solid State (Base Mounting) | Feature  | Box/Pcs |
|-------|--------------|--------------|--------------------------------------|----------|---------|
| SSS1X | Rail Type    | 45 x 75 mm   | 12A                                  | W/O Fan  | 1       |
| SSS2X | Rail Type    | 45 x 100 mm  | 25A                                  | W/O Fan  | 1       |
| SSS2F | Rail Type    | 45 x 100 mm  | 40A                                  | With Fan | 1       |
| SSS4X | Rail Type    | 100 x 75 mm  | 40A                                  | W/O Fan  | 1       |
| SSS4F | Rail Type    | 100 x 75 mm  | 50A                                  | With Fan | 1       |
| SSS5X | Rail Type    | 100 x 100 mm | 50A                                  | W/O Fan  | 1       |
| SSS5F | Rail Type    | 100 x 100 mm | 70A, 100A, 120A                      | With Fan | 1       |

## Rail Type Electronic Relays

### Time Relays



RR3ZTS30



RR3VP01



RR3LL01



RR3LLPROP



RR3FR01

| Code      | Operating Voltage  | Time Range          | Function |    |    |    | Control Output                 | Box/Pcs |
|-----------|--------------------|---------------------|----------|----|----|----|--------------------------------|---------|
|           |                    |                     | F1       | F2 | F3 | F4 |                                |         |
| RR3ZTC01  | 24V DC/VAC-220V AC | 0,06 sec. - 30 hour | √        | √  | √  | √  | 1 Changeover Relay 10A/250V AC | 10      |
| RR3ZTC02* |                    | 0,6 sec. - 10 hour  |          |    | √* | √* | 1 Changeover Relay 10A/250V AC | 10      |
| RR3ZTS30  |                    | 0,1-30 sec.adj      | √        |    |    |    | 1 Changeover Relay 10A/250V AC | 10      |
| RR3ZTS60  |                    | 0,1-60 sec.adj      | √        |    |    |    | 1 Changeover Relay 10A/250V AC | 10      |

F1.Delay ON Function / F2. Delay OFF Function / F3. ON Flasher Function / F4. OFF Flasher Function / F5. Bypass

\*In this model on-off times are separately adjustable.

### Voltage Protection

| Code     | Operating Voltage | Time Delay Adjustment    | Over Voltage Protection Level | Under Voltage Protection Level | Phase Sequence & Phase Loss Protection | Control Output                 | Box/Pcs |
|----------|-------------------|--------------------------|-------------------------------|--------------------------------|--|--------------------------------|---------|
| RR3VP01  | 220 VAC           | 0,1 - 20 sec. Adjustable | 230-300 VAC                   | 150-210 VAC                    | Single Phase                           | 1 Changeover Relay 10A/250VAC  | 10      |
| RR3VP02  |                   |                          | Adjustable                    | Adjustable                     | Three Phase                            | 1 Changeover Relay 10A/250V AC | 10      |
| RR3VP02N | 380 VAC           | 0,1 - 10 sec. Adjustable | %5-%30 Adjustable             | %5-%30 Adjustable              | Three Phase (without Neutral)          | 1 Changeover Relay 10A/250V AC | 10      |

### Liquid Level Control

| Code      | Operating Voltage | Electrode       | Adjustment Sensitivity(kΩ) | Dimensions         | Control Output                | Box/Pcs |
|-----------|-------------------|-----------------|----------------------------|--------------------|-------------------------------|---------|
| RR3LL01   | 220 VAC           | base,bottom,top | 2 - 50                     |                    | 1 Changeover Relay 10A/250VAC | 10      |
| RR3LLPROP |                   | Electrode       |                            | Size 90mm dia 19mm |                               | 10      |

### Photocell Relay

| Code     | Operating Voltage | Lux Scale | Time elay | Control          | Protection | Control Output                 | Box/Pcs |
|----------|-------------------|-----------|-----------|------------------|------------|--------------------------------|---------|
| RR3FR01  | 220 VAC           | 1-10 LUX  | 25s-40s   | Automatic        | -          | 1 changeover Relay 10A/250V AC | 10      |
| RR3FRG0Z |                   |           |           | LDR Light Sensor |            |                                | 10      |



RR3MP1N



RR3MP4FP

### Motor Protection

| Code      | Operating Voltage | Voltage Asymmetry | Phase Loss | Phase Sequence | Thermal Protection | Control Output                | Box/Pcs                       |    |
|-----------|-------------------|-------------------|------------|----------------|--------------------|-------------------------------|-------------------------------|----|
| RR3MP1N   | 220V AC           | %20               | ✓          |                |                    | 1 Changeover Relay 10A/250VAC | 10                            |    |
| RR3MP2N   |                   | %40               | ✓          |                |                    | 1 Changeover Relay 10A/250VAC | 10                            |    |
| RR3MP2F   |                   | %40               | ✓          | ✓              |                    | 1 Changeover Relay 10A/250VAC | 10                            |    |
| RR3MP2FP  |                   | %40               | ✓          | ✓              |                    | 1 Changeover Relay 10A/250VAC | 10                            |    |
| RR3MP4F   |                   | %5-15             | ✓          | ✓              |                    | 1 Changeover Relay 10A/250VAC | 10                            |    |
| RR3MP4FP  |                   | %5-15             | ✓          | ✓              |                    | 1 Changeover Relay 10A/250VAC | 10                            |    |
| RR3MP4FPN |                   | %5-15             | ✓          | ✓              | Without Neutral    | ✓                             | 1 Changeover Relay 10A/250VAC | 10 |
| RR3MP5FN  |                   | %15               | ✓          | ✓              | Without Neutral    |                               | 1 Changeover Relay 10A/250VAC | 10 |

### Star Delta Relay

| Code    | Operating Voltage | Time Range  | Function                     | Control Output       | Box/Pcs |
|---------|-------------------|---|------------------------------|----------------------|---------|
| RR3YU01 | 220V AC           | Star:3-30s, Star->Delta:50-500m                     | Star Delta                   | 2NO relay 10A/250VAC | 10      |
| RR3YU02 |                   | Star:3-30s,Star-Delta:50-500ms,Right-Left:0.6s-5min | Star Delta& Right Left Relay | 2NO relay 10A/250VAC | 10      |

## Ø22 mm Electronic Time Relays

### Analogue Time Relays

| Code       | Function | Time Range  | Operating Voltage | Number of Contacts    | Box/Pcs |
|------------|----------|-------------|-------------------|-----------------------|---------|
| RZ3A1A30M2 | Delay On | 0.5-30 min. | 10-30V DC         | PNP Transistor Output | 1       |
| RZ3A1A60M2 | Delay On | 1-60 min.   | 10-30V DC         | PNP Transistor Output | 1       |
| RZ3A1A30S2 | Delay On | 0,1-30 sec. | 10-30V DC         | PNP Transistor Output | 1       |
| RZ3A1A60S2 | Delay On | 0,1-60 sec. | 10-30V DC         | PNP Transistor Output | 1       |



RZ3A1A30S2



RZ3A1A60S2

## 36x36 mm Electronic Relays

### Analogue Time Relays

#### With Single Relay

| Code         | Function  | Time Range     | Operating Voltage   | Number of Contacts   | Box/Pcs |
|--------------|-----------|----------------|---------------------|----------------------|---------|
| RZ1A1A03*-1  | Delay On  | 0.3 - 3 sec/m  | 12V AC/DC           | 1 Changeover Contact | 1       |
| RZ1A1A03*-25 | Delay On  | 0.3 - 3 sec/m  | 24V AC/DC - 220V AC | 1 Changeover Contact | 1       |
| RZ1A1A06*-1  | Delay On  | 0.6 - 6 sec/m  | 12V AC/DC           | 1 Changeover Contact | 1       |
| RZ1A1A06*-25 | Delay On  | 0.6 - 6 sec/m  | 24V AC/DC - 220V AC | 1 Changeover Contact | 1       |
| RZ1A1A12*-1  | Delay On  | 1.2 - 12 sec/m | 12V AC/DC           | 1 Changeover Contact | 1       |
| RZ1A1A12*-25 | Delay On  | 1.2 - 12 sec/m | 24V AC/DC - 220V AC | 1 Changeover Contact | 1       |
| RZ1A1A30*-1  | Delay On  | 3 - 30 sec/m   | 12V AC/DC           | 1 Changeover Contact | 1       |
| RZ1A1A30*-25 | Delay On  | 3 - 30 sec/m   | 24V AC/DC - 220V AC | 1 Changeover Contact | 1       |
| RZ1A1A60S-1  | Delay On  | 6 - 60 sec/m   | 12V AC/DC           | 1 Changeover Contact | 1       |
| RZ1A1A60S-25 | Delay On  | 6 - 60 sec/m   | 24V AC/DC - 220V AC | 1 Changeover Contact | 1       |
| RZ1A1B03*-1  | Delay Off | 0.3 - 3 sec/m  | 12V AC/DC           | 1 Changeover Contact | 1       |
| RZ1A1B03*-25 | Delay Off | 0.3 - 3 sec/m  | 24V AC/DC - 220V AC | 1 Changeover Contact | 1       |
| RZ1A1B06*-1  | Delay Off | 0.6 - 6 sec/m  | 12V AC/DC           | 1 Changeover Contact | 1       |
| RZ1A1B06*-25 | Delay Off | 0.6 - 6 sec/m  | 24V AC/DC - 220V AC | 1 Changeover Contact | 1       |
| RZ1A1B12*-1  | Delay Off | 1.2 - 12 sec/m | 12V AC/DC           | 1 Changeover Contact | 1       |
| RZ1A1B12*-25 | Delay Off | 1.2 - 12 sec/m | 24V AC/DC - 220V AC | 1 Changeover Contact | 1       |
| RZ1A1B30*-1  | Delay Off | 3 - 30 sec/m   | 12V AC/DC           | 1 Changeover Contact | 1       |
| RZ1A1B30*-25 | Delay Off | 3 - 30 sec/m   | 24V AC/DC - 220V AC | 1 Changeover Contact | 1       |
| RZ1A1B60S-1  | Delay Off | 6 - 60 sec/m   | 12V AC/DC           | 1 Changeover Contact | 1       |
| RZ1A1B60S-25 | Delay Off | 6 - 60 sec/m   | 24V AC/DC - 220V AC | 1 Changeover Contact | 1       |



RZ1A1A12S-25



RZ1A2C06S-2

### With Double Relay

| Code        | Function             | Time Range    | Operating Voltage | Number of Contacts                            | Box/Pcs |
|-------------|----------------------|---------------|-------------------|---|---------|
| RZ1A2C03*-1 | Delay On & Delay Off | 0.3 - 3 sec/m | 12V AC/DC         | 1 Changeover Contact + 1Normally Open Contact | 1       |
| RZ1A2C03*-2 | Delay On & Delay Off | 0.3 - 3 sec/m | 24V AC/DC         | 1 Changeover Contact + 1Normally Open Contact | 1       |
| RZ1A2C03*-5 | Delay On & Delay Off | 0.3 - 3 sec/m | 220V AC           | 1 Changeover Contact + 1Normally Open Contact | 1       |
| RZ1A2C06*-1 | Delay On & Delay Off | 0.6 - 6 sec/m | 12V AC/DC         | 1 Changeover Contact + 1Normally Open Contact | 1       |
| RZ1A2C06*-2 | Delay On & Delay Off | 0.6 - 6 sec/m | 24V AC/DC         | 1 Changeover Contact + 1Normally Open Contact | 1       |
| RZ1A2C06*-5 | Delay On & Delay Off | 0.6 - 6 sec/m | 220V AC           | 1 Changeover Contact + 1Normally Open Contact | 1       |
| RZ1A2C12*-1 | Delay On & Delay Off | 1.2 -12 sec/m | 12V AC/DC         | 1 Changeover Contact + 1Normally Open Contact | 1       |
| RZ1A2C12*-2 | Delay On & Delay Off | 1.2 -12 sec/m | 24V AC/DC         | 1 Changeover Contact + 1Normally Open Contact | 1       |
| RZ1A2C12*-5 | Delay On & Delay Off | 1.2 -12 sec/m | 220V AC           | 1 Changeover Contact + 1Normally Open Contact | 1       |
| RZ1A2C30*-1 | Delay On & Delay Off | 3 - 30 sec/m  | 12V AC/DC         | 1 Changeover Contact + 1Normally Open Contact | 1       |
| RZ1A2C30*-2 | Delay On & Delay Off | 3 - 30 sec/m  | 24V AC/DC         | 1 Changeover Contact + 1Normally Open Contact | 1       |
| RZ1A2C30*-5 | Delay On & Delay Off | 3 - 30 sec/m  | 220V AC           | 1 Changeover Contact + 1NormallyOpen Contact  | 1       |
| RZ1A2C60S-1 | Delay On & Delay Off | 6 - 60 sec/m  | 12V AC/DC         | 1 Changeover Contact + 1Normally Open Contact | 1       |
| RZ1A2C60S-2 | Delay On & Delay Off | 6 - 60 sec/m  | 24V AC/DC         | 1 Changeover Contact + 1Normally Open Contact | 1       |
| RZ1A2C60S-5 | Delay On & Delay Off | 6 - 60 sec/m  | 220V AC           | 1 Changeover Contact + 1Normally Open Contact | 1       |

\*Time Mode: S: second (sec) ; M: minute (m)

Note 1: 48x48 adaptor will be supplied free of charge whenever needed.

Note 2: All electronic relays must be used together with RS1P08 Sockets



RZ1D1B-1

### Digital Time Relay

| Code     | Operating Voltage | Number of Contacts   | Time Range   | Function* |   |    |    |    |    |    |    |   |   | Box/Pcs |   |   |   |
|----------|-------------------|----------------------|--------------|-----------|---|----|----|----|----|----|----|---|---|---------|---|---|---|
|          |                   |                      |              | A         | B | F1 | F2 | S1 | S2 | S3 | S4 | I | P |         | R |   |   |
| RZ1D1S-1 | 12V AC/DC         | 1 Changeover Contact | 0.1-99.59sn. | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √       | √ | √ | 1 |
| RZ1D1S-2 | 24V AC/DC         | 1 Changeover Contact | 0.1-99.59sn. | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √       | √ | √ | 1 |
| RZ1D1S-4 | 110V AC           | 1 Changeover Contact | 0.1-99.59sn. | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √       | √ | √ | 1 |
| RZ1D1S-5 | 220V AC           | 1 Changeover Contact | 0.1-99.59sn. | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √       | √ | √ | 1 |
| RZ1D1B-1 | 12V AC/DC         | 1 Changeover Contact | 0.1-99.59sn. | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √       | √ | √ | 1 |
| RZ1D1B-2 | 24V AC/DC         | 1 Changeover Contact | 0.1-99.59sn. | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √       | √ | √ | 1 |
| RZ1D1B-5 | 220V AC           | 1 Changeover Contact | 0.1-99.59sn. | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √       | √ | √ | 1 |
| RZ1D1R-1 | 12V AC/DC         | 1 Changeover Contact | 0.1-99.59sn. | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √       | √ | √ | 1 |
| RZ1D1R-2 | 24V AC/DC         | 1 Changeover Contact | 0.1-99.59sn. | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √       | √ | √ | 1 |
| RZ1D1R-5 | 220V AC           | 1 Changeover Contact | 0.1-99.59sn. | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √       | √ | √ | 1 |



RZ1D1C-5

### Digital Counters

| Code     | Operating Voltage | Number of Contacts   | Counter Entry  | Reset Entry    | Box/Pcs |
|----------|-------------------|----------------------|----------------|----------------|---------|
| RZ1D1C-2 | 24V AC/DC         | 1 Changeover Contact | 12-30V DC Pals | 12-30V DC Pals | 1       |
| RZ1D1C-5 | 220V AC           | 1 Changeover Contact | 12-30V DC Pals | 12-30V DC Pals | 1       |



RDA1A

### Digital Panelmeters

| Code  | Type            | Operating Voltage | Number of Contacts   | Counter Entry          | Box/Pcs |
|-------|-----------------|-------------------|----------------------|------------------------|---------|
| RDA1A | Ampermeter      | 220/230V AC       | 1 Changeover Contact | 0-5 A                  | 1       |
| RDV1A | Voltmeter       | 220/230V AC       | 1 Changeover Contact | 0-600V AC              | 1       |
| RDH1A | Frequency meter | 220/230V AC       | 1 Changeover Contact | 100-250V AC / 30-70 Hz | 1       |



RAM1S

### Motor Protection Relay

| Code  | Operating Voltage | Number of Contacts   | Protection Phase Sequence | Protection Phase Loss | Box/Pcs |
|-------|-------------------|----------------------|---------------------------|-----------------------|---------|
| RAM1S | 3x380V AC         | 1 Changeover Contact | √                         | √                     | 1       |

## 48x48 mm Electronic Relays



RZ4A3M708P

### Analogue Time Relays

| Code       | Operating Voltage | Number of Contacts  | Time Range        | Function* |   |    |    |    |    |    |    |   |   | Box/<br>Pcs |   |  |   |
|------------|-------------------|---------------------|-------------------|-----------|---|----|----|----|----|----|----|---|---|-------------|---|--|---|
|            |                   |                     |                   | A         | B | F1 | F2 | S1 | S2 | S3 | S4 | I | P |             | R |  |   |
| RZ4A3M708P | 24-240V AC/DC     | 2 ChangeoverContact | 0.05 sec-100 hour | √         | √ | √  | √  |    |    |    |    |   |   |             |   |  | 1 |
| RZ4A3M708K | 24-240V AC/DC     | 2 ChangeoverContact | 0.05 sec-100 hour | √         | √ | √  | √  |    |    |    |    |   |   |             |   |  | 1 |

### Digital Time Relays

| Code       | Operating Voltage | Number of Contacts   | Time Range          | Function* |   |    |    |    |    |    |    |   |   | Box/<br>Pcs |   |   |   |
|------------|-------------------|----------------------|---------------------|-----------|---|----|----|----|----|----|----|---|---|-------------|---|---|---|
|            |                   |                      |                     | A         | B | F1 | F2 | S1 | S2 | S3 | S4 | I | P |             | R |   |   |
| RZ4D1S108P | 12V AC/DC         | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1S208P | 24V AC/DC         | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1S408P | 110V AC           | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1S508P | 230V AC           | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1S108K | 12V AC/DC         | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1S208K | 24V AC/DC         | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1S408K | 110V AC           | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1S508K | 230V AC           | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1B108P | 12V AC/DC         | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1B208P | 24V AC/DC         | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1B508P | 230V AC           | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1B108K | 12V AC/DC         | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1B208K | 24V AC/DC         | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1B508K | 230V AC           | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1R108P | 12V AC/DC         | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1R208P | 24V AC/DC         | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1R508P | 230V AC           | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1R108K | 12V AC/DC         | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1R208K | 24V AC/DC         | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |
| RZ4D1R508K | 230V AC           | 1 Changeover Contact | 0.1 sec-99 h.59 min | √         | √ | √  | √  | √  | √  | √  | √  | √ | √ | √           | √ | √ | 1 |



RZ4D1S208K

### Digital Counters

| Code       | Operating Voltage | Number of Contacts  | Counter Entry  | Reset Entry   | Box/<br>Pcs |
|------------|-------------------|---------------------|----------------|---------------|-------------|
| RZ4D1C208P | 24V AC/DC         | 1 ChangeoverContact | 12-30V Dc Pals | 12-30V DcPals | 1           |
| RZ4D1C508P | 230VAC            | 1 ChangeoverContact | 12-30V Dc Pals | 12-30V DcPals | 1           |
| RZ4D1C208K | 24V AC/DC         | 1 ChangeoverContact | 12-30V Dc Pals | 12-30V DcPals | 1           |
| RZ4D1C508K | 230VAC            | 1 ChangeoverContact | 12-30V Dc Pals | 12-30V DcPals | 1           |



RZ4D1S208P

#### \*Functions

- A: Delay On
- B: Delay Off
- F1: Flasher with delay on energy
- F2: Flasher with delay off energy
- S1: Timing on energy with start input
- S2: Delay on energy with start input
- S3: Timing on energy with start input break
- S4: Delay on energy with start input (2)
- I: Waiting (Inhibit)
- P: Start possibility from front panel
- R: Reserve



L51K23LUM324

# Safety Products



CP200EP



CP200EA30

## Emergency Stop Button

### CP/CM Series Emergency Stop

| Code       | Type                         | Contact Block | Dia (mm) | Colour | Box/Pcs |
|------------|------------------------------|---------------|----------|--------|---------|
| CP200E30   |                              | 1 NC          | 30       | ●      | 10      |
| CP200ES30  | With Signal                  | 1 NC          | 30       | ●      | 10      |
| CP200EA30  | Key Operated                 | 1 NC          | 30       | ●      | 10      |
| CP200ECN30 | Pull to Release              | 1 NC          | 30       | ●      | 10      |
| CP200ECS30 | With Signal, Pull to Release | 1 NC          | 30       | ●      | 10      |
| CP200E     | Turn to Release              | 1 NC          | 40       | ●      | 10      |
| CP200EE    | Turn to Release, With Label  | 1 NC          | 40       | ●      | 10      |
| CP200EK30  | Turn to Release              | 1 NC          | 30       | ●      | 10      |
| CP200EP    | With Window                  | 1 NC          | 40       | ●      | 10      |
| CM200E     | Mushroom                     | 1 NC          | 40       | ●      | 10      |
| CM200EE    | Turn to release with Label   | 1 NC          | 40       | ●      | 10      |



B200E30



B200EE

### B Series Emergency Stop

| Code    | Type       | Contact Block | Dia (mm) | Colour | Box/Pcs |
|---------|------------|---------------|----------|--------|---------|
| B200E30 |            | 1 NC          | 30       | ●      | 10      |
| B102E30 |            | 1 NO + 1 NC   | 30       | ●      | 10      |
| B200E   |            | 1 NC          | 40       | ●      | 10      |
| B200EE  | With Plate | 1 NC          | 40       | ●      | 10      |
| B102E   |            | 1 NO + 1 NC   | 40       | ●      | 10      |
| B200E60 |            | 1 NC          | 60       | ●      | 5       |
| B102E60 |            | 1 NO + 1 NC   | 60       | ●      | 5       |
| B200EG  |            | 1NC           | 40       | ●      | 10      |



KB12E

### KB Series Emergency Stop

| Code  | Contact Block | Colour | Box/Pcs |
|-------|---------------|--------|---------|
| KB12E | 1 NC          | ●      | 10      |
| KB14E | 1 NO + 1 NC   | ●      | 10      |



H200EE

### H Series Emergency Stop (30 mm)

| Code   | Type                       | Contact Block | Dia (mm) | Colour | Box/Pcs |
|--------|----------------------------|---------------|----------|--------|---------|
| H200EE | Turn to release with label | 1 NK          | 40       | ●      | 10      |



PK1SE

## Emergency Stop Control Box

### PK Series

| Code  | Button Qty | Features                   | Box Colour   | Box/Pcs |
|-------|------------|----------------------------|--------------|---------|
| PK1SE | Single     | With Emergency Stop Button | Yellow-Black | 1       |



P1EC400E40K



P1C400E72

### P Series (Plastic Enclosed)

| Code        | Button Qty | Features                       | Box Colour   | Box/Pcs |
|-------------|------------|--------------------------------|--------------|---------|
| P1EC400E40  | Single     | Emergency Stop                 | Yellow-Black | 1       |
| P1EC400E40K | Single     | Emergency Stop, With Plate     | Yellow-Black | 1       |
| P1C400E72   | Single     | 72mm. Emergency Stop           | Grey-Black   | 1       |
| PA1E40LED1  | Single     | Emergency Stop, With LED Label | Yellow-Black | 1       |



M1C200E40

### M Series (Metal Enclosed)

| Code      | Button Qty | Features                   | Box Colour  | Box/Pcs |
|-----------|------------|----------------------------|-------------|---------|
| M1C200E40 | Single     | Emergency Stop             | Yellow-Grey | 1       |
| M1C200EE  | Single     | Emergency Stop, With Label | Yellow-Grey | 1       |

## Limit Switches



L5K23LEM411



L5K23BEM621



L5K23LUM324



L5K23LUM323

### L5 Series, Plastic Body Slow Action

| Code         | Actuator                | Actuator Type | End Unit Material | Box/Pcs |
|--------------|-------------------------|---------------|-------------------|---------|
| L5K23LEM411* | Hinge                   | Plastic       | Metal             | 1       |
| L5K23LEM412* | Hinge                   | Plastic       | Metal             | 1       |
| L5K23LEM511* | Hinge                   | Plastic       | Metal             | 1       |
| L5K23LEM621* | Hinge                   | Plastic       | Metal             | 1       |
| L5K23LEM622* | Hinge                   | Plastic       | Metal             | 1       |
| L5K23BEM621* | Rotational Tube         | Plastic       | Metal             | 1       |
| L5K23LUM320* | Straight and Curved Key | Plastic       | Metal             | 1       |
| L5K23LUM321* | Curved Key              | Plastic       | Metal             | 1       |
| L5K23LUM322* | Straight Key            | Plastic       | Metal             | 1       |
| L5K23LUM323* | Movable Key             | Plastic       | Metal             | 1       |
| L5K23LUM324* | Movable Key             | Plastic       | Metal             | 1       |
| L5K23CPDE*   | Emergency Stop          | Plastic       | Plastic           | 1       |



L51K23LUM321



L51K23HUM112

### L51 Series, Metal Body, Slow Action

| Code          | Actuator                | Actuator Type | End Unit Material | Box/Pcs |
|---------------|-------------------------|---------------|-------------------|---------|
| L51K23LUM320* | Straight and Curved Key | Metal         | Metal             | 1       |
| L51K23LUM321* | Curved Key              | Metal         | Metal             | 1       |
| L51K23LUM322* | Straight Key            | Metal         | Metal             | 1       |
| L51K23LUM323* | Movable Key             | Metal         | Metal             | 1       |
| L51K23LUM324* | Movable Key             | Metal         | Metal             | 1       |
| L51K23HUM111* | Metal Ring              | Metal         | Metal             | 1       |
| L51K23HUM112* | Metal Ring, with Reset  | Metal         | Metal             | 1       |

Maximum usable wire length is 12 metre for L51K23HUM111 and L51K23HUM112 limit switches



L52K23HUM111



L52K23HUM112

### L52 Series, Metal Body, Slow Action

| Code          | Actuator                | Actuator Type | End Unit Material | Box/Pcs |
|---------------|-------------------------|---------------|-------------------|---------|
| L52K23LUM320* | Straight and Curved Key | Metal         | Metal             | 1       |
| L52K23LUM321* | Curved Key              | Metal         | Metal             | 1       |
| L52K23LUM322* | Straight Key            | Metal         | Metal             | 1       |
| L52K23LUM323* | Movable Key             | Metal         | Metal             | 1       |
| L52K23LUM324* | Movable Key             | Metal         | Metal             | 1       |
| L52K23HUM111* | Metal Ring              | Metal         | Metal             | 1       |
| L52K23HUM112* | Metal Ring, with Reset  | Metal         | Metal             | 1       |

\* Positive Opening Function

Maximum usable wire length can is 12 metre for L52K23HUM111 and L52K23HUM112 limit switches



CEKPB



CEKPAB

### Two Hand Control Panel

| Code   | Description                                    | Colour | Base |
|--------|--|--------|------|
| CEKP1  | 2 Sides, 1 Middle Hole                         |        |      |
| CEKP3  | 2 Sides, 3 Middle Hole                         |        |      |
| CEKP3G | 2 Sides, 3 Middle Hole, Grey                   |        |      |
| CEKP5  | 2 Sides, 5 Middle Hole                         |        |      |
| CEKPA  | 2 Sides, 1 Middle Hole                         |        | ✓    |
| CEKPB  | 1 pcs CM200E (middle), 2 pcs CM200MY (2 sides) |        |      |
| CEKPAB | 1 pcs CM200E (middle), 2 pcs CM200MY (2 sides) |        | ✓    |

| Code | Accessories             |
|------|-------------------------|
| CEKA | Base For Two Hand Panel |



VT2050



VT Kaplin



VTKAMD



VTKAMA



PV3E30B2



CSM10

# Crane Products

## Crane Control Boxes



PVK2E



PVK4E

### PVK Series IP 65

| Code  | Button Qty | Box Colour   | Box/Pcs |
|-------|------------|--------------|---------|
| PVK2E | 2          | Single Speed | 1       |
| PVK2X | 2          | Blank        | 1       |
| PVK3E | 3          | Single Speed | 1       |
| PVK3X | 2          | Blank        | 1       |
| PVK4E | 4          | Single Speed | 1       |
| PVK4X | 4          | Blank        | 1       |
| PVK5E | 5          | Single Speed | 1       |
| PVK6E | 6          | Single Speed | 1       |
| PVK6X | 6          | Blank        | 1       |
| PVK7E | 7          | Single Speed | 1       |
| PVK8E | 8          | Single Speed | 1       |



PV3E30B4



PV5T144



PV7E30B444



PV9E30B4444



PV3E30B3



PV9E30B222AA20

### PV Series IP 65

| Code         | Hole Qty | 1.Hole         | Contact | Speed               | Box/Pcs |
|--------------|----------|----------------|---------|---------------------|---------|
| PV2Z2        | 2        | 1.Hole Closed  |         | Single Speed        | 1       |
| PV2Z4        | 2        | 1.Hole Closed  |         | Single-Double Speed | 1       |
| PV2ZX        | 2        | 1.Hole Closed  |         | Blank               | 1       |
| PV3AC20A2    | 3        | Key Selector   | 1NO     | Single Speed        | 1       |
| PV3AC20B2    | 3        | Key Selector   | 1NC     | Single Speed        | 1       |
| PV3E30B2     | 3        | Emergency Stop | 1NC     | Single Speed        | 1       |
| PV3E30B3     | 3        | Emergency Stop | 1NC     | Single Speed        | 1       |
| PV3E30B4     | 3        | Emergency Stop | 1NC     | Double Speed        | 1       |
| PV3E30E2     | 3        | Emergency Stop | 2NC     | Single Speed        | 1       |
| PV3E30E4     | 3        | Emergency Stop | 2NC     | Double Speed        | 1       |
| PV3T12       | 3        | Blind Cap      |         | Single Speed        | 1       |
| PV3T14       | 3        | Blind Cap      |         | Double Speed        | 1       |
| PV3T1X       | 3        | Blind Cap      |         | Blank               | 1       |
| PV3X         | 3        |                |         | Blank               | 1       |
| PV4Z22       | 4        | 1.Hole Closed  |         | Single Speed        | 1       |
| PV4Z42       | 4        | 1.Hole Closed  |         | Double-Single Speed | 1       |
| PV4Z44       | 4        | 1.Hole Closed  |         | Double Speed        | 1       |
| PV4ZX        | 4        | 1.Hole Closed  |         | Blank               | 1       |
| PV5AA20C24   | 5        | Key Selector   | 1NC+1NO | Single Speed        | 1       |
| PV5AC20A22   | 5        | Key Selector   | 1NO     | Single Speed        | 1       |
| PV5AC20B22   | 5        | Key Selector   | 1NC     | Single Speed        | 1       |
| PV5E30B22    | 5        | Emergency Stop | 1NC     | Single Speed        | 1       |
| PV5E30B2AC20 | 5        | Key Selector   | 1NC     | Single Speed        | 1       |
| PV5E30B33    | 5        | Emergency Stop | 1NC     | Single Speed (2NO)  | 1       |
| PV5E30B42    | 5        | Emergency Stop | 1NC     | Double-Single Speed | 1       |
| PV5E30B44    | 5        | Emergency Stop | 1NC     | Double Speed        | 1       |
| PV5E30B4A20  | 5        | Key Selector   | 1NC     | Double Speed        | 1       |
| PV5E30E22    | 5        | Emergency Stop | 2NC     | Single Speed        | 1       |
| PV5E30E44    | 5        | Emergency Stop | 2NC     | Double Speed        | 1       |
| PV5E40B22    | 5        | Emergency Stop | 1NC     | Single Speed        | 1       |
| PV5E40C22    | 5        | Emergency Stop | 1NC+1NO | Single Speed        | 1       |
| PV5T122      | 4        | Blind Cap      |         | Single Speed        | 1       |
| PV5T142      | 5        | Blind Cap      |         | Single-Double Speed | 1       |
| PV5T144      | 5        | Blind Cap      |         | Double Speed        | 1       |
| PV5X         | 5        |                |         | Blank               | 1       |
| PV6Z222      | 6        | 1.Hole Closed  |         | Single Speed        | 1       |
| PV6Z444      | 6        | 1.Hole Closed  |         | Double Speed        | 1       |
| PV6ZX        | 6        | 1.Hole Closed  |         | Blank               | 1       |
| PV7AA20C222  | 7        | Key Selector   | 1NC+1NO | Single Speed        | 1       |
| PV7AC20A222  | 7        | Key Selector   | 1NO     | Single Speed        | 1       |
| PV7AC20A444  | 7        | Key Selector   | 1NO     | Double Speed        | 1       |
| PV7AC20B222  | 7        | Key Selector   | 1NC     | Single Speed        | 1       |
| PV7AC20B444  | 7        | Key Selector   | 1NC     | Double Speed        | 1       |

## PV Series IP 65

| Code           | Hole Qty | 1.Hole         | Contact | Speed              | Box/Pcs |
|----------------|----------|----------------|---------|--------------------|---------|
| PV7E30B222     | 7        | Emergency Stop | 1NC     | Single Speed       | 1       |
| PV7E30E222     | 7        | Emergency Stop | 1NC+1NC | Single Speed       | 1       |
| PV7E30B22AC20  | 7        | Key Selector   | 1NC     | Single Speed       | 1       |
| PV7E30B333     | 7        | Emergency Stop | 1NC     | Single Speed (2NO) | 1       |
| PV7E30B422     | 7        | Emergency Stop | 1NC     | Single Speed       | 1       |
| PV7E30B444     | 7        | Emergency Stop | 1NC     | Double Speed       | 1       |
| PV7E30B44AC20  | 7        | Key Selector   | 1NC     | Double Speed       | 1       |
| PV7E30C422     | 7        | Emergency Stop | 1NC+1NO | Single Speed       | 1       |
| PV7E40B222     | 7        | Emergency Stop | 1NC     | Single Speed       | 1       |
| PV7E40B22AC20  | 7        | Key Selector   | 1NC     | Single Speed       | 1       |
| PV7E40B444     | 7        | Emergency Stop | 1NC     | Double Speed       | 1       |
| PV7EA30B222    | 7        | Emergency Stop | 1NC     | Single Speed       | 1       |
| PV7EA30B444    | 7        | Emergency Stop | 1NC     | Double Speed       | 1       |
| PV7T1222       | 7        | Blind Cap      |         | Single Speed       | 1       |
| PV7T1444       | 6        |                |         | Double Speed       | 1       |
| PV7T1X         | 7        | Blind Cap      |         | Blank              | 1       |
| PV7X           | 7        |                |         | Blank              | 1       |
| PV8E30B444S30  | 8        | Selector       | 1NC     | Double Speed       | 1       |
| PV8Z2222       | 8        | 1.Hole Closed  |         | Single Speed       | 1       |
| PV8Z4444       | 8        | 1.Hole Closed  |         | Double Speed       | 1       |
| PV8ZX          | 8        | 1.Hole Closed  |         | Blank              | 1       |
| PV9AC20C4444   | 9        | Key Selector   | 1NC+1NO | Double Speed       | 1       |
| PV9AC30B4444   | 9        | Key Selector   | 1NC     | Double Speed       | 1       |
| PV9E30B2222    | 9        | Emergency Stop | 1NC     | Single Speed       | 1       |
| PV9E30B222AA20 | 8        | Key Selector   | 1NC     | Single Speed       | 1       |
| PV9E30B222AC20 | 9        | Key Selector   | 1NC     | Single Speed       | 1       |
| PV9E30B4444    | 9        | Emergency Stop | 1NC     | Double Speed       | 1       |
| PV9E30B444AA20 | 9        | Key Selector   | 1NC     | Double Speed       | 1       |
| PV9E30B444AC20 | 9        | Key Selector   | 1NC     | Double Speed       | 1       |
| PV9E30E2222    | 9        | Emergency Stop | 2NC     | Single Speed       | 1       |
| PV9E30E4444    | 9        | Emergency Stop | 2NC     | Double Speed       | 1       |
| PV9E40B222AC20 | 9        | Key Selector   | 1NC     | Single Speed       | 1       |
| PV9E40B4444    | 9        | Emergency Stop | 1NC     | Double Speed       | 1       |
| PV9E40B444AC20 | 9        | Key Selector   | 1NC     | Double Speed       | 1       |
| PV9EA30B2222   | 9        | Emergency Stop | 1NC     | Single Speed       | 1       |
| PV9EA30B4444   | 9        | Emergency Stop | 1NC     | Double Speed       | 1       |
| PV9T12222      | 9        | Blind Cap      |         | Single Speed       | 1       |
| PV9T14444      | 9        | Blind Cap      |         | Double Speed       | 1       |
| PV9T1X         | 9        | Blind Cap      |         | Blank              | 1       |
| PV9X           | 9        |                |         | Blank              | 1       |



PVCHBD - PVCHSD - PVTHBD - PVTHSD

## PV Series Spare Parts

| Code      | Type  | Speed        | Colour | Box/Pcs |
|-----------|---|--------------|--------|---------|
| PVB1      | Start Contact Block                               | -            | ●      | 20      |
| PVB2      | Stop Contact Block                                | -            | ●      | 20      |
| PVCHBD    | Button  | Double Speed | ○      | 20      |
| PVCHSD    | Button  | Double Speed | ●      | 20      |
| PVTHBD    | Button  | Single Speed | ○      | 20      |
| PVTHSD    | Button  | Single Speed | ●      | 20      |
| PVA       | Adapter   |              |        |         |
| CP200EK30 | Turn to Release-Short Emergency Stop 1 NC (40 mm) |              | ●      | 10      |



CSM10

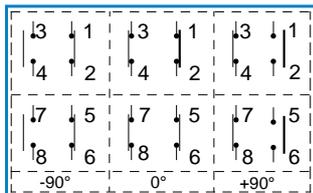


CSM02

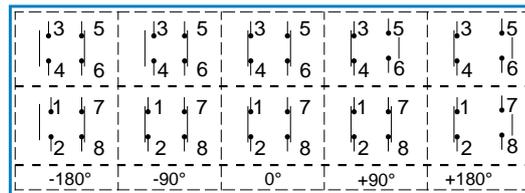
## Cross Limit Switch, Metal Body, IP 65

| Code   | Type | Features                         | Actuator Length | Box/Pcs |
|--------|------|----------------------------------|-----------------|---------|
| CSM02  | 180° | 1 forward step, 1 reverse step   | 200 mm          | 1       |
| CSM023 | 180° | 1 forward step, 1 reverse step   | 300 mm          | 1       |
| CSM04  | 360° | 2 forward steps, 2 reverse steps | 200 mm          | 1       |
| CSM043 | 360° | 2 forward steps, 2 reverse steps | 300 mm          | 1       |
| CSM10  | 360° | Eternal                          | 200 mm          | 1       |
| CSM103 | 360° | Eternal                          | 300 mm          | 1       |

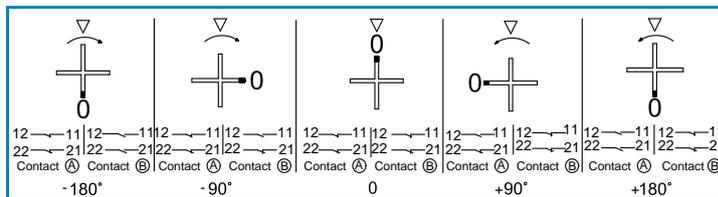
CSM02



CSM04



CSM10



## Rotational Limit Switch, IP67



VT2050



VT4300

| Code    | Switch Quantity | Cam Degree | Contact | Box/Pcs |
|---------|-----------------|------------|---------|---------|
| VT2***  | 2               | 20°        | 2*CO    | 1       |
| VT3***  | 3               | 20°        | 3*CO    | 1       |
| VT4***  | 4               | 20°        | 4*CO    | 1       |
| VT2***D | 2               | 60°        | 2*CO    | 1       |
| VT3***D | 3               | 60°        | 3*CO    | 1       |
| VT4***D | 4               | 60°        | 4*CO    | 1       |

Note: Ratios are 1/25, 1/50, 1/75, 1/100, 1/150, 1/200, 1/300

For ratios, please fill 3 digit number instead of \*\*\*

i.e.: VT2050 means 2 switch qty and 050 ratios

## Accessories for Rotational Limit Switch



VTKAMA

VTKAMD

| Code     | Cam Degree |
|----------|------------|
| VTKAMA   | 20°        |
| VTKAMD   | 60°        |
| VTKAPLİN |            |





Z73



PSA010ZL123C



Z7401



L5K23MUM332R



PA4443



PY4ASB2

# Lift Products



PARK4SB



PA3311



PA4411



PA6601



PA4412



PA1E40K



PA4401



PA1BOS



PA8801

## Lift Push Button Stations

| Code     | Number of Holes | Features  | Box Colour   | Box/Pcs |
|----------|-----------------|---|--------------|---------|
| PA1101   | 1               | MBZS024S  | Yellow-Black | 1       |
| PA1111   | 1               | B100AA21  | Yellow-Black | 1       |
| PA1171   | 1               | MBZS024S  | Yellow-Black | 1       |
| PA1172   | 1               | MBZS012S  | Yellow-Black | 1       |
| PA1191   | 1               | BPR10K  | Yellow-Black | 1       |
| PA1BOS   | 1               | Empty   | Yellow-Black | 1       |
| PA1E40K  | 1               | CP200E+BET60  | Yellow-Black | 1       |
| PA2202   | 2               | CP200EP + EPREU1H   | Yellow-Grey  | 1       |
| PA2211   | 2               | B100DHL+B200EE  | Yellow-Black | 1       |
| PA2221   | 2               | MBSD012Y + MBSD012K   | Grey-Grey    | 1       |
| PA2222   | 2               | MBSD024Y + MBSD024K   | Grey-Grey    | 1       |
| PA2225   | 2               | MBSD220Y + MBSD220K   | Grey-Grey    | 1       |
| PA2AB    | 2               | B102K20KY + MBZS024S  | Yellow-Grey  | 1       |
| PA2BOS   | 2               | Empty   | Yellow-Black | 1       |
| PA2BOSP  | 2               | Empty (1 x 22 mm + 1 x Panel Socket Hole )  | Yellow-Grey  | 1       |
| PA2E40P1 | 1               | B200E + EPREU1M   | Yellow-Black | 1       |
| PA3304   | 3               | B100DHL + CP200EP + EPREU1H   | Yellow-Grey  | 1       |
| PA3311   | 3               | B102K20HSZL + B200E + EPREU1M+BMUHAFAZA   | Yellow-Black | 1       |
| PA3312   | 3               | B102K20KY + B200E + EPREU1M   | Yellow-Grey  | 1       |
| PA3313   | 3               | CP102K20YY + CP200E + EPREU1M   | Yellow-Grey  | 1       |
| PA3BOS   | 3               | Empty   | Yellow-Black | 1       |
| PA3E40P1 | 3               | B200E + EPREU1M + Stopper   | Yellow-Grey  | 1       |
| PA4401   | 4               | CP200E + CP100DM + CP102K20HBOK + PSA020KD340AR   | Yellow-Black | 1       |
| PA4402   | 4               | B200E + BMUHAFAZA + B101DMOO + B606K20HBOK + PSA020KD340AR                                | Yellow-Black | 1       |
| PA4403   | 4               | CP200E + CP100DM + CP102K20HBOK + PSA020ZS332AR   | Yellow-Black | 1       |
| PA4404   | 4               | B200E + B101DMOO + B606K20HBOK + PSA020ZS332AR (Cable gland)                              | Yellow-Black | 1       |
| PA4405   | 4               | CP200E + CP100DM + CP101K20HBOK + PSA020ZT332AR   | Yellow-Black | 1       |
| PA4406   | 4               | CP200EP + CP101DB + CP101DB + PSA020ZS332AR   | Yellow-Black | 1       |
| PA4407   | 4               | CP200E + CP100DM + CP101K20HB + PSA020ZT332AR   | Yellow-Black | 1       |
| PA4408   | 4               | CP200EP + CP100DM + CP102K20HB + PSA020ZT332AR  | Yellow-Black | 1       |
| PA4409   | 4               | CP200EP + CP100DM/MOK + CP808K20HBOK + PSA020ZA332AR                                      | Yellow-Black | 1       |
| PA4411   | 4               | CP200E + CP100DY + CP101S20 + EPREU1M   | Yellow-Black | 1       |
| PA4412   | 4               | B200E + B100DHL + B100DSZ + EPREU1M   | Yellow-Black | 1       |
| PA4443   | 4               | CP200EP + CP101K20SMZO + CP808K20HBOK + PSA020ZS332AR                                     | Yellow-Black | 1       |
| PA4444   | 4               | CP102E + CP808K20HBOK + CP102K20SMZO + PSA020ZS332AR                                      | Yellow-Black | 1       |
| PA4445   | 4               | CP200EP + CMUHAFAZA + CP101DBOY + CP101DHOY + PSA020ZA332AR                               | Yellow-Black | 1       |
| PA4446   | 4               | CP200EP + CMUHAFAZA + CP808K20HBOK + CP101K20SMZO + PSA020ZA332AR                         | Yellow-Black | 1       |
| PA4BOS   | 4               | Empty   | Yellow-Black | 1       |
| PA5501   | 5               | CP200E + CP101DHOY + CP100DB + CMUHAFAZA + MBSD024Y + EPREU1M + PSA020KD340AR             | Yellow-Black | 1       |
| PA5502   | 5               | CP200EE + CP100DH + CP100DM + PSA020ZT332AR   | Yellow-Black | 1       |
| PA5503   | 5               | CP200E + CP100Y + CP100DY + EPREU1M + PSA020KD340AR                                       | Yellow-Black | 1       |
| PA5BOS   | 5               | Empty   | Yellow-Black | 1       |
| PA6601   | 6               | CP200E + CMUHAFAZA + CP101K20HBOK + CP100DM + CP101S30 + CP101S30 + PSA020KD340AR         | Yellow-Black | 1       |
| PA6602   | 6               | CP200E + CP102K20HB + CP100DM + CP101S30 + PSA020KD340AR                                  | Yellow-Black | 1       |
| PA6603   | 6               | CP200EP + CMUHAFAZA + CP601DH + CP100DS + CP100DM + CP601DB + PSA020ZA332AR               | Yellow-Black | 1       |
| PA6BOS   | 6               | Empty   | Yellow-Black | 1       |
| PA8801   | 8               | CP200E + CP101DB + CP101DH + CP101K20HSZL + CP100DM + CP101S30 + CP101S30 + PSA020KD340AR | Yellow-Black | 1       |
| PA8811   | 8               | B101DB + B100DHL + B100DH + B100DM + B100DSZ + EPREU1M + PSA020ZA431AR                    | Yellow-Black | 1       |
| PA8BOS   | 8               | Empty   | Yellow-Black | 1       |
| PA9971   | 9               | MB100DH + MB100DY + MB100DM + MB102DH + MB102DH + MB101S20 + MB200EE + EPREU1M + EPRUS1H  | Yellow-Black | 1       |
| PA9972   | 9               | MB100DH + MB100DY + MB100DM + MB102DH + MB102DH + MB200S20 + MB200EE + EPREU1M + EPRUS1H  | Yellow-Black | 1       |
| PA9BOS   | 9               | Empty   | Yellow-Black | 1       |
| PA9E40P2 | 9               | B102DH + B102DH + B100DH + B100DM + B100DY + B200EE + B102S20 + EPREU1M + EPRUS1H         | Yellow-Black | 1       |
| PARK4B   | 3               | B102DBOD + B102DBOD + B200EE  | Yellow-Black | 1       |
| PARK4B   | 4               | B100DB + B100DB + B200EE  | Yellow-Black | 1       |
| PARK4BDM | 4               | B100DBOD + B100DMOD + B100DMOD + B200EE   | Yellow-Black | 1       |
| PARK4BOS | 4               | Empty   | Yellow-Black | 1       |
| PARK4CS1 | 4               | CP100DBOD + CP200EP + CP100DHOD + CP100DM   | Yellow-Black | 1       |
| PARK4M1  | 4               | CP102DBOD + CP200E + CP102DHOD + S100LK1  | Yellow-Black | 1       |
| PARK4M2  | 4               | CP101DBOD + CP200E + CP101DHOD  | Yellow-Black | 1       |
| PARK4SB  | 4               | B102DBOD + B102DBOD + B200EE + B101S20  | Yellow-Black | 1       |
| PARK4SIB | 4               | B102DBOD + B102DBOD + B200EE + S100K  | Yellow-Black | 1       |

Note: Control Boxes have IP65 protection degree, but the minimum IP of the button is accepted for the complete product.

## Accessories

| Code  | Features                                  | Material |
|-------|---|----------|
| PA4AA | Lift Station box with 4 bracket apparatus | Plastic  |
| PA8AA | Lift Station box with 8 bracket apparatus | Plastic  |



Z70



Z71



Z73



Z7401



L5K23MUM332R



L5K13MEL123A

## Lift Products

| Code  | Type                      | Box/Pcs |
|-------|---------------------------|---------|
| Z70   | Plug                      | 16      |
| Z71   | Socket-Single Entry       | 16      |
| Z72   | Socket-Double Entry       | 16      |
| Z73   | Plug                      | 16      |
| Z7401 | Mounting Screw M4*11,5 mm | 16      |
| Z7402 | Mounting Screw M4*6,5 mm  | 16      |
| Z7403 | Mounting Screw M4*20 mm   | 16      |

## Limit Switches

| Code           | Actuator   | Actuator Type | End Unit Material |
|----------------|--|---------------|-------------------|
| L5K13MEL123*   | Angular Action Roller Two Way                        | Plastic       | Rubber            |
| L5K13MEL123A*  | Angular Action Roller Two Way                        | Plastic       | Rubber            |
| L5K13MEL123R   | Angular Action Roller Two Way, Adjustable,with Reset | Plastic       | Rubber            |
| L5K23MUM331R*  | Linear Roller, with Reset                            | Plastic       | Metal             |
| L5K23MUM332R*  | Linear Roller, with Reset                            | Plastic       | Metal             |
| L51K13MEL123*  | Angular Action Roller Two Way                        | Metal         | Rubber            |
| L51K13MEL123A* | Angular Action Roller Two Way                        | Metal         | Rubber            |
| L51K23MUM331R* | Linear Roller, with Reset                            | Metal         | Metal             |
| L51K23MUM332R* | Linear Roller, with Reset                            | Metal         | Metal             |

\* Positive Opening Features

## ByPass Cam Switches



PSA010ZL123C



PSA010ZL123C

| Code          | Rated Thermal Current (A) | Instruction                                    | Place of Usage                         | Scheme |
|---------------|---------------------------|--|--|--------|
| PSA010ZL123S  | 10A                       | 48*48 mm Framed + Standard Handle              | -                                      |        |
| PSA010ZL123C  | 10A                       | w/o Frame + PSMK Mounted                       | -                                      |        |
| PSA010ZL123AR | 10A                       | w/o Frame + with Handle suitable for Enclosure | -                                      |        |
| PSA010ZR221S  | 10A                       | 48*48 mm Framed + Standard Handle              | -                                      |        |
| PSA010ZR221AR | 10A                       | w/o Frame + with Handle suitable for Enclosure | -                                      |        |
| PSA020KD340AR | 20A                       | w/o Frame + with Handle suitable for Enclosure | PA4401, PA4402, PA5501, PA6601, PA8801 |        |
| PSA020ZA431AR | 20A                       | w/o Frame + with Handle suitable for Enclosure | PA8811                                 |        |
| PSA020ZT332AR | 20A                       | w/o Frame + with Handle suitable for Enclosure | PA4405                                 |        |
| PSA020ZS332AR | 20A                       | w/o Frame + with Handle suitable for Enclosure | PA4403, PA4404, PA4443                 |        |

## Accessories



PSMK



PSMK

| Code | Type           | Feature      | Material |
|------|----------------|--------------|----------|
| PSMK | between 10-25A | Handle Cover | Plastic  |



HKP020025R3A

HKP015015R1A

HKP040060R8A

HKP020025ZKA

HKP040060ZSA

HKP020025ZEA

# Cable Carriers



HKP015015R1A



HKP020025R3A



HKP040060R5A



HKP015015ZDA



HKP015015ZEA

| Code         | Material | Inner Height | Inner Width | Bending Radius | Type | Box/Pcs |
|--------------|----------|--------------|-------------|----------------|------|---------|
| HKP015015R1A | Plastic  | 15 mm        | 15 mm       | 25 mm          | Open | 1 x 1 m |
| HKP020025R3A | Plastic  | 20 mm        | 25 mm       | 40 mm          | Open | 1 x 1 m |
| HKP040060R5A | Plastic  | 40 mm        | 60 mm       | 100 mm         | Open | 1 x 1 m |

| Code         | Material | Inner Height | Inner Width | Features            | Box/Pcs |
|--------------|----------|--------------|-------------|---------------------|---------|
| HKP015015ZDA | Plastic  | 15 mm        | 15 mm       | Internal Connection | 10      |
| HKP015015ZEA | Plastic  | 15 mm        | 15 mm       | External Connection | 10      |
| HKP015015ZKA | Plastic  | 15 mm        | 15 mm       | Upper               | 100     |
| HKP020025ZDA | Plastic  | 20 mm        | 25 mm       | Internal Connection | 10      |
| HKP020025ZEA | Plastic  | 20 mm        | 25 mm       | External Connection | 10      |
| HKP020025ZKA | Plastic  | 20 mm        | 25 mm       | Upper               | 100     |
| HKP040060ZDA | Plastic  | 40 mm        | 60 mm       | Internal Connection | 1       |
| HKP040060ZEA | Plastic  | 40 mm        | 60 mm       | External Connection | 1       |
| HKP040060ZKA | Plastic  | 40 mm        | 60 mm       | Upper               | 20      |
| HKP040060Z5A | Plastic  | 40 mm        | -           | Seperator           | 20      |



HKP015015ZKA



HKP020025ZDA



HKP020025ZEA

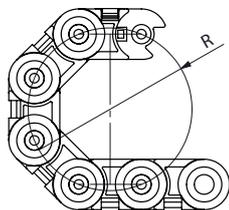


HKP020025ZKA



HKP040060Z5A

## BENDING RADIUS



|    |        |    |        |
|----|--------|----|--------|
| R1 | 25 mm  | R6 | 125 mm |
| R2 | 35 mm  | R7 | 150 mm |
| R3 | 40 mm  | R8 | 200 mm |
| R4 | 75 mm  | R9 | 250 mm |
| R5 | 100 mm |    |        |

## B Series Control Units Selection Table

| Series  | Contact Block Combination   |  |          | Button Type  | Colour  | Pad Printing  |
|---|---|--|----------|--|---|---|
| <b>B</b>                                      | <b>1</b>  | <b>K</b>   | <b>2</b> | <b>D</b>   | <b>K</b>  | <b>1</b>  |
| <b>B</b> B Series<br>Ø 22 mm<br>Control Units | <b>Contact Block Type</b><br><b>1</b> Start - For Button<br><b>2</b> Stop - For Button  | <b>Contact Block Type</b><br><b>0</b> Empty<br><b>1</b> Start - For Button<br><b>2</b> Stop - For Button |          | <b>Spring Type</b><br><b>D</b> Flush<br><b>F</b> Stay Put<br><b>H</b> Extended<br><b>M</b> Mushroom Ø 40 mm<br><b>Key Operated Type</b><br><b>AA20</b> 2 Position, Stay Put (0-1) ↕<br><b>AA21</b> 2 Position, Spring Return (0-1) ↕<br><b>AA30</b> 3 Position, Stay Put (II-0-I) ↕<br><b>AA31</b> 3 Position, Single Spring Return (II-0-I) ↕<br><b>AA32</b> 3 Position, Double Spring Return (II-0-I) ↕<br><b>AC20</b> 2 Position, Stay Put (II-0-I) ↕<br><b>AC30</b> 3 Position, Stay Put (II-0-I) ↕<br>⚠ Taking key out position<br><b>Selector Type</b><br><b>S20</b> 2 Position, Stay Put (0-1), 60° ↙<br><b>S21</b> 2 Position, Spring Return (0-1), 60° ↗<br><b>S30</b> 3 Position, Stay Put (II-0-I), 60° ↘<br><b>S31</b> 3 Position, Single Spring Return (II-0-I), 60° ↘<br><b>S32</b> 3 Position, Double Spring Return (II-0-I), 60° ↘<br><b>SL20</b> 2 Position, Illuminated Stay Put (0-1) ↙<br><b>SL21</b> 2 Position, Illuminated Spring Return (0-1) ↗<br><b>SL30</b> 3 Position, Illuminated Stay Pu (II-0-I) ↘<br><b>SL31</b> 3 Position, Illuminated Single Spring Return (II-0-I) ↘<br><b>SL32</b> 3 Position, Illuminated Double Spring Return (II-0-I) ↘<br><b>T20</b> 2 Position, Stay Put (0-1), 90° ↘<br><b>T21</b> 2 Position, Spring Return (0-1), 90° ↘<br><b>R20</b> 2 Position, Stay Put (0-1), 45° ↙<br><b>R21</b> 2 Position, Spring Return (0-1), 45° ↗<br><b>C</b> Handle Switch<br><b>Emergency Stop Type</b><br><b>E30</b> Ø 30 mm, Turn to Release<br><b>E</b> Ø 40 mm, Turn to Release<br><b>EE</b> Ø 40 mm, With Label, Turn to Release<br><b>E60</b> Ø 60 mm, Turn to Release<br><b>EG</b> Ø 40 mm With Position Curser Turn to Release<br><b>Double Type</b><br><b>K20</b> Flush<br><b>K21</b> Flush, Single Extender<br><b>K22</b> Flush, Double Extender<br><b>B20</b> Big Double Flush<br><b>B30</b> Triple Signle Extended Stop<br><b>X</b> Pilots | <b>Colour</b><br><b>B</b> White<br><b>K</b> Red<br><b>M</b> Blue<br><b>S</b> Yellow<br><b>Y</b> Green<br><b>H</b> Black Mat | <b>0</b> 0 Printed<br><b>10</b> I-0 Printed<br><b>1</b> I Printed<br><b>2</b> II Printed<br><b>12</b> I-II Printed<br><b>L</b> LIGHT Printed<br><b>OD</b> OK Vertical Printed<br><b>OY</b> OK Horizontal Printed<br><b>OK</b> OK Special Printed<br><b>OO</b> OK Special Printed<br><b>S</b> Siren Sign<br><b>Z</b> Bell Sign |
|   | <b>Illumination Block Type</b><br><b>O</b> Empty<br><b>B</b> 100-230 V AC/DC With White LED<br><b>K</b> 100-230 V AC/DC With Red LED<br><b>M</b> 100-230 V AC/DC With Blue LED<br><b>S</b> 100-230 V AC/DC With Yellow LED<br><b>Y</b> 100-230 V AC/DC With Green LED<br><b>5</b> 12-30 V AC/DC With White LED<br><b>6</b> 12-30 V AC/DC With Red LED<br><b>7</b> 12-30 V AC/DC With Blue LED<br><b>8</b> 12-30 V AC/DC With Yellow LED<br><b>9</b> 12-30 V AC/DC With Green LED<br><b>Q</b> 48 V AC/DC With White LED<br><b>X</b> 48 V AC/DC With Red LED<br><b>V</b> 48 V AC/DC With Blue LED<br><b>W</b> 48 V AC/DC With Yellow LED<br><b>Z</b> 48 V AC/DC With Green LED<br><b>C</b> 110 V AC/DC With White LED<br><b>D</b> 110 V AC/DC With Red LED<br><b>E</b> 110 V AC/DC With Blue LED<br><b>F</b> 110 V AC/DC With Yellow LED<br><b>G</b> 110 V AC/DC With Green LED<br><b>3*</b> Illumination Block Suitable for Ba9S Bulbs |  |          |  |   |   |
|   |   |  |          |  |   |   |

\*Only for B Series

**Example:** B1K2DK → B series, start, stop, 100 - 230V AC, With Red LED, red flush type control unit has been selected.

## C Series Control Units Selection Table

| Series    | Contact Block Combination | Button Type | Colour   | Pad Printing |
|-----------|---------------------------|-------------|----------|--------------|
| <b>CM</b> | <b>1 K 2</b>              | <b>D</b>    | <b>K</b> | <b>1</b>     |

|           |   |
|-----------|---|
| <b>CP</b> | CP Series Plastic Ø 22 mm Control Units |
| <b>CM</b> | CM Series Metal Ø 22 mm Control Units   |

| Spring Type               | Colour             |
|---------------------------|--------------------|
| <b>D</b> Flush            | <b>B</b> White     |
| <b>F</b> Stay Put         | <b>K</b> Red       |
| <b>M</b> Mushroom Ø 40 mm | <b>M</b> Blue      |
| <b>H</b> Extended         | <b>S</b> Yellow    |
|                           | <b>Y</b> Green     |
|                           | <b>H</b> Black Mat |

| Key Operated Type Buttons                               |
|---|
| <b>AA20</b> 2 Position, Stay Put (0-I) ↕                |
| <b>AA21</b> 2 Position, Spring Return (0-I) ↕           |
| <b>AA30</b> 3 Position, Stay Put (II-0-I) ↕             |
| <b>AA31</b> 3 Position, Single Spring Return (II-0-I) ↕ |
| <b>AA32</b> 3 Position, Double Spring Return (II-0-I) ↕ |
| <b>AC20</b> 2 Position, Stay Put (II-0-I) ↕             |
| <b>AC30</b> 3 Position, Stay Put (II-0-I) ↕             |
| Ω Taking key out position                               |

| Selector Type   |
|---|
| <b>S20</b> 2 Position, Stay Put (0-I), 60° ↕                |
| <b>S21</b> 2 Position, Spring Return (0-I), 60° ↕           |
| <b>S30</b> 3 Position, Stay Put (II-0-I), 60° ↕             |
| <b>S31</b> 3 Position, Single Spring Return (II-0-I), 60° ↕ |
| <b>S32</b> 3 Position, Double Spring Return (II-0-I), 60° ↕ |

| Joystick                              |
|---------------------------------------|
| <b>DJ20</b> 2 Position, Stay Put      |
| <b>DJ21</b> 2 Position, Spring Return |
| <b>DJ40</b> 4 Position, Stay Put      |
| <b>DJ41</b> 4 Position, Spring Return |

| Emergency Stop Type (Only CP Plastic Series)        |
|---|
| <b>E30</b> Ø 30 mm, Turn to Release*                |
| <b>EK30</b> Ø 30 mm, Short, Turn to Release*        |
| <b>EA30</b> Ø 30 mm, Key Operated, Turn to Release* |
| <b>ES30</b> Ø 30 mm, With Signal, Turn to Release*  |
| <b>ECN30</b> Ø 30 mm, Pull to Release*              |
| <b>ECS30</b> Ø 30 mm, With Signal, Pull to Release* |
| <b>E</b> Ø 40 mm, Turn to Release                   |
| <b>EC</b> Ø 40 mm, Pull to Release                  |
| <b>EE</b> Ø 40 mm, Turn to Release, With Label      |
| <b>EP</b> Ø 40 mm, With Window, Pull to Release     |
| * Snap Locked                                       |

| Double Head Buttons        |
|----------------------------|
| <b>K20</b> Flush           |
| <b>K21</b> Single Extended |
| <b>X</b> Pilots            |

| Pad Printing                    |
|---------------------------------|
| <b>0</b> 0 Printed              |
| <b>10</b> I-0 Printed           |
| <b>1</b> I Printed              |
| <b>2</b> II Printed             |
| <b>12</b> I-II Printed          |
| <b>L</b> LIGHT Printed          |
| <b>OD</b> OK Vertical Printed   |
| <b>OY</b> OK Horizontal Printed |
| <b>OK</b> OK Special Printed    |
| <b>OO</b> OK Special Printed    |
| <b>S</b> Siren Sign             |
| <b>Z</b> Bell Sign              |

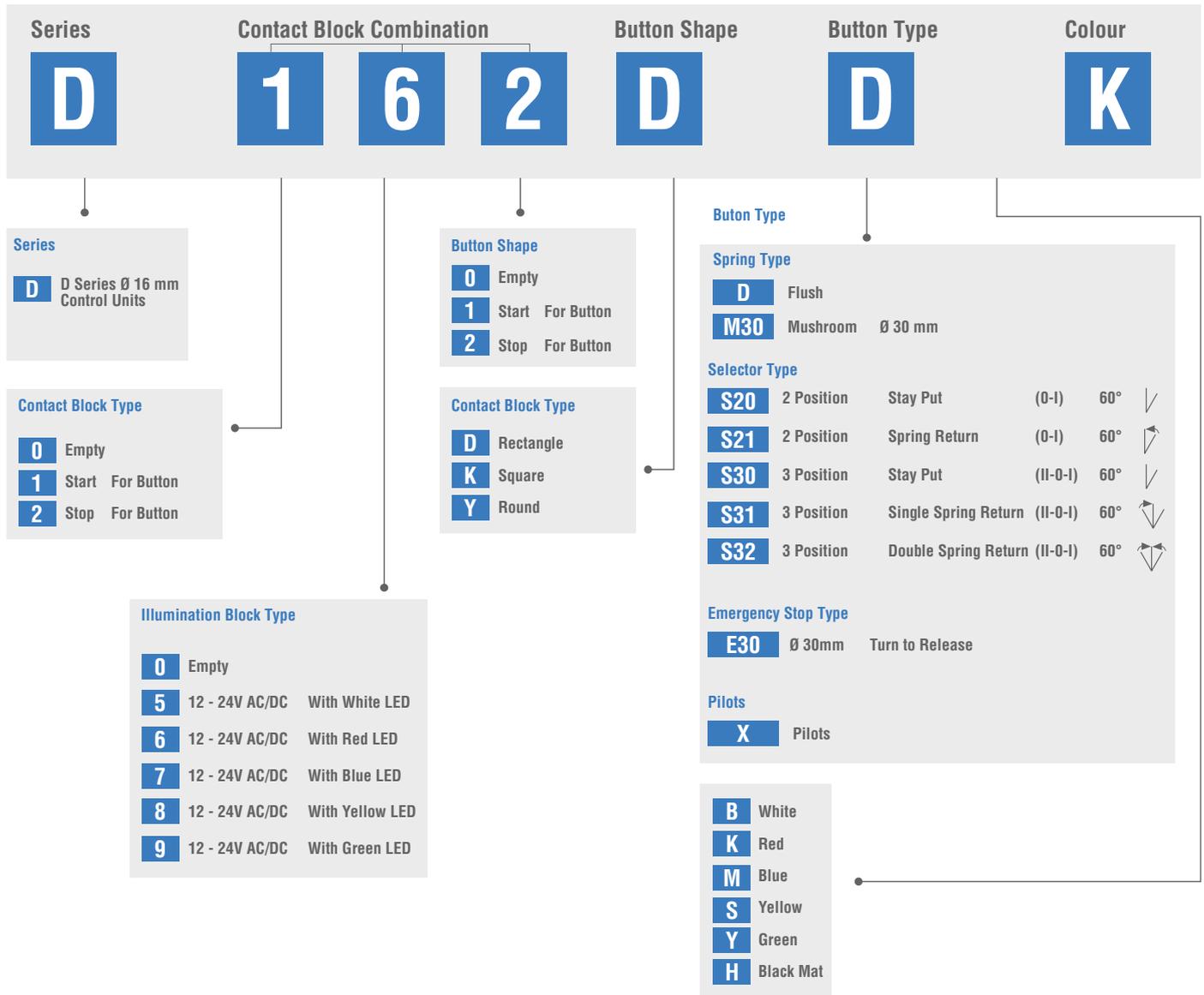
  

| Empty                                   | Illumination Block Type                  |
|---|--|
| <b>0</b> Empty                          | <b>0</b> Empty                           |
| <b>1</b> Start For Button               | <b>B</b> 100-230 V AC/DC With White LED  |
| <b>2</b> Stop For Button                | <b>K</b> 100-230 V AC/DC With Red LED    |
| <b>3</b> Tandem Start - Start           | <b>M</b> 100-230 V AC/DC With Blue LED   |
| <b>4</b> Tandem Start - Stop            | <b>S</b> 100-230 V AC/DC With Yellow LED |
| <b>5</b> Tandem Stop - Stop             | <b>Y</b> 100-230 V AC/DC With Green LED  |
| <b>6</b> Start - Start Vertical         | <b>5</b> 12-30 V AC/DC With White LED    |
| <b>7</b> Start - Stop Vertical          | <b>6</b> 12-30 V AC/DC With Red LED      |
| <b>8</b> Stop - Stop Vertical           | <b>7</b> 12-30 V AC/DC With Blue LED     |
| <b>9</b> Start - Stop in Single Contact | <b>8</b> 12-30 V AC/DC With Yellow LED   |
|   | <b>9</b> 12-30 V AC/DC With Green LED    |
|   | <b>Q</b> 48 V AC/DC With White LED       |
|   | <b>X</b> 48 V AC/DC With Red LED         |
|   | <b>V</b> 48 V AC/DC With Blue LED        |
|   | <b>W</b> 48 V AC/DC With Yellow LED      |
|   | <b>Z</b> 48 V AC/DC With Green LED       |
|   | <b>C</b> 110 V AC/DC With White LED      |
|   | <b>D</b> 110 V AC/DC With Red LED        |
|   | <b>E</b> 110 V AC/DC With Blue LED       |
|   | <b>F</b> 110 V AC/DC With Yellow LED     |
|   | <b>G</b> 110 V AC/DC With Green LED      |
|   | <b>N</b> 220V DC With White LED          |
|   | <b>O</b> 220V DC With Red LED            |
|   | <b>P</b> 220V DC With Blue LED           |
|   | <b>R</b> 220V DC With Yellow LED         |
|   | <b>T</b> 220V DC With Green LED          |

**Example:** CM1K2DK → C Series, Metal, start, stop, 100 - 230V AC, with red LED, red flush type control unit has been selected.

## D Series Control Units Selection Table



**Example:** D162DDK→D Series, start,stop,12 - 24V AC/DC, With Red LED, Red Rectangle flush type control unit has been selected.

## MB Series Monoblock Ø22 mm Control Units Selection Table

| Series    | Contact Combination |          |          | Button Type | Colour   | Pad Printing |
|-----------|---------------------|----------|----------|-------------|----------|--------------|
| <b>MB</b> | <b>1</b>            | <b>0</b> | <b>2</b> | <b>D</b>    | <b>K</b> | <b>1</b>     |

**Series**

**MB** Series Monoblock Ø 22mm Control Units

**Contact Block Type**

**1** Start For Button

**2** Stop For Button

**Contact Block Type**

**1** Start For Button

**2** Stop For Button

**Illumination Block Type**

**0** Empty

**Button Type**

**Spring Type**

- D** Flush
- F** Stay Put
- H** Extended
- M** Mushroom Ø 40 mm

**Selector Type**

|            |            |                      |          |     |   |
|------------|------------|----------------------|----------|-----|---|
| <b>S20</b> | 2 Position | Stay Put             | (0-I)    | 60° | ✓ |
| <b>S21</b> | 2 Position | Spring Return        | (0-I)    | 60° | ↗ |
| <b>S30</b> | 3 Position | Stay Put             | (II-0-I) | 60° | ✓ |
| <b>S31</b> | 3 Position | Single Spring Return | (II-0-I) | 60° | ↘ |
| <b>S32</b> | 3 Position | Double Spring Return | (II-0-I) | 60° | ↕ |

**Emergency Stop Type**

- E** Ø 40mm Turn to Release
- EE** Ø 40mm With Label Turn to Release

**Pilots**

- X** Pilots

**Colour**

- B** White
- K** Red
- M** Blue
- S** Yellow
- Y** Green
- H** Black

**Pad Printing**

|           |            |                    |
|-----------|------------|--------------------|
| <b>0</b>  | 0          | Printed            |
| <b>10</b> | I-0        | Printed            |
| <b>1</b>  | I          | Printed            |
| <b>2</b>  | II         | Printed            |
| <b>12</b> | I-II       | Printed            |
| <b>L</b>  | LIGHT      | Printed            |
| <b>OD</b> | OK         | Vertical Printed   |
| <b>OY</b> | OK         | Horizontal Printed |
| <b>OK</b> | OK         | Special Printed    |
| <b>OO</b> | OK         | Special Printed    |
| <b>S</b>  | Siren Sign |                    |
| <b>Z</b>  | Bell Sign  |                    |

**Example:** MB102DK → MB Series, start, stop, Red flush type control unit has been selected.

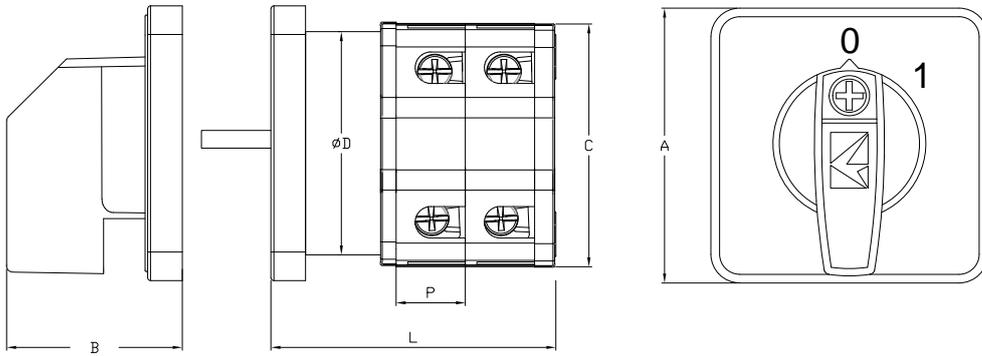
## Limit Switches Selection Table

| Series   | Housing Type | Contact Mode | Contact Type | End Unit Type | Action Unit | End Unit Material | Type No    | Reset    |
|----------|--------------|--------------|--------------|---------------|-------------|-------------------|------------|----------|
| <b>L</b> | <b>1</b>     | <b>K1</b>    | <b>3</b>     | <b>M</b>      | <b>I</b>    | <b>P</b>          | <b>211</b> | <b>R</b> |

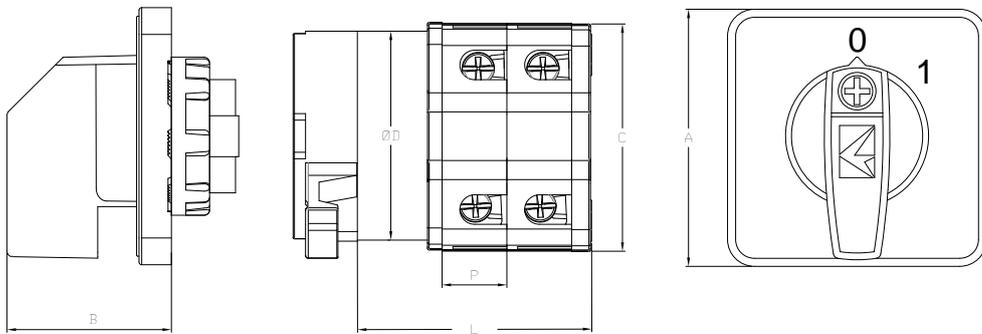
|                         |   |   |  |  |   |   |  |   |
|-------------------------|---|---|--|--|---|---|--|---|
| <b>L</b> Limit Switches | <b>1</b> Series<br><b>2</b> Series<br><b>3</b> Series<br><b>4</b> Series<br><b>5</b> Series<br><b>51</b> Series<br><b>52</b> Series<br><b>53</b> Series<br><b>54</b> Series<br><b>61</b> Series<br><b>66</b> Series<br><b>67</b> Series | <b>K1</b> Snap Action Overlap<br><b>K2</b> Slow Action Overlap<br><b>K3</b> Slow Action Overlap | <b>1</b> Start-Start (NO+NO)<br><b>2</b> Stop-Stop (NC+NC)<br><b>3</b> Stop-Start (NC+NO)<br><b>4</b> Start-Stop (NO+NC)<br><b>5</b> Double Stop-Start (2NC+NO)<br><b>6</b> Double Start - Double Stop 2 (NC+NO)<br><b>7</b> Double Start-Stop (2NO+NC)<br><b>8</b> Double Start-Double Stop 2 (NO+NC)<br><b>9</b> Stop-Start Overlapped | <b>M</b> Roller<br><b>P</b> Plunger<br><b>S</b> Spiral<br><b>F</b> Flexible Rod<br><b>R</b> Rigid Rod<br><b>L</b> Hinge<br><b>H</b> Pull Wire<br><b>B</b> Rot Point<br><b>CPDE</b> Emergency | <b>I</b> Angular Action. Single Direction<br><b>E</b> Angular Action. Double Direction<br><b>O</b> Angular Action. Multiple Direction<br><b>U</b> Linear Action | <b>P</b> Plastic<br><b>M</b> Metal<br><b>L</b> Rubber<br><b>F</b> Fiber | <b>111</b><br><b>121</b><br><b>122</b><br><b>123</b><br><b>124</b><br><b>211</b><br><b>311</b><br><b>321</b><br><b>323</b><br><b>324</b><br><b>331</b><br><b>332</b><br><b>411</b><br><b>412</b><br><b>511</b><br><b>621</b><br><b>622</b> | <b>Standard</b><br><b>R</b> Reset<br><b>A</b> Adjustable Lever<br><b>RA</b> Adjustable Lever With Reset<br><b>T</b> Opposite Mounted Lever<br><b>Y</b> Lever with Soft Spring<br><b>3</b> 3 Metre Cable |
|-------------------------|---|---|--|--|---|---|--|---|

## Standard



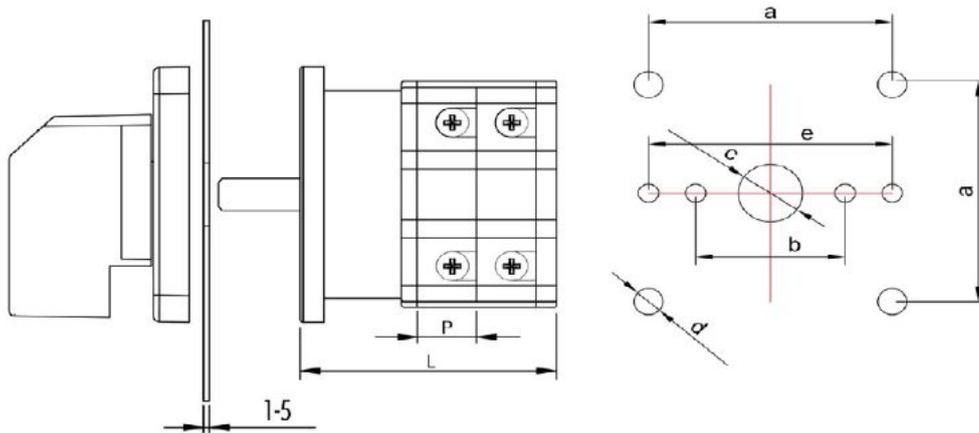
|        | A  | B    | C    | D  |
|--------|----|------|------|----|
| PSA10  | 48 | 30,5 | 42,5 | 27 |
| PSA16  | 48 | 30,5 | 42,5 | 27 |
| PSA20  | 48 | 30,5 | 42,5 | 27 |
| PSA25  | 48 | 30,5 | 42,5 | 27 |
| PSA32  | 64 | 38   | 55   | 55 |
| PSA40  | 64 | 38   | 55   | 55 |
| PSA50  | 64 | 38   | 55   | 55 |
| PSA63  | 64 | 38   | 55   | 55 |
| PSA80  | 85 | 43   | 75   | 75 |
| PSA120 | 95 | 43   | 85   | 85 |

## Quick Installation



|        | A  | B  | C    | D  |
|--------|----|----|------|----|
| PSA10  | 48 | 31 | 42,5 | 27 |
| PSA16  | 48 | 31 | 42,5 | 27 |
| PSA20  | 48 | 31 | 42,5 | 27 |
| PSA25  | 48 | 31 | 42,5 | 27 |
| PSA32  | 64 | 40 | 55   | 55 |
| PSA40  | 64 | 40 | 55   | 55 |
| PSA50  | 64 | 40 | 55   | 55 |
| PSA63  | 64 | 40 | 55   | 55 |
| PSA80  | 85 | 45 | 75   | 75 |
| PSA120 | 95 | 45 | 85   | 85 |

## Dimensions



|        | P    | L    |      |      |       |       |       |       |       |
|--------|------|------|------|------|-------|-------|-------|-------|-------|
|        |      | 1    | 2    | 3    | 4     | 5     | 6     | 7     | 8     |
| PSA10  | 10   | 33,2 | 43,2 | 53,2 | 63,2  | 73,2  | 83,2  | 93,2  | 103,2 |
| PSA16  | 10   | 33,2 | 43,2 | 53,2 | 63,2  | 73,2  | 83,2  | 93,2  | 103,2 |
| PSA20  | 10   | 33,2 | 43,2 | 53,2 | 63,2  | 73,2  | 83,2  | 93,2  | 103,2 |
| PSA25  | 12   | 35,2 | 47,2 | 59,2 | 71,2  | 83,2  | 95,2  | 107,2 | 119,2 |
| PSA32  | 13   | 39,2 | 52,2 | 65,2 | 78,2  | 91,2  | 104,2 | 117,2 | 130,2 |
| PSA40  | 15   | 41,2 | 56,2 | 71,2 | 86,2  | 101,2 | 116,2 | 131,2 | 146,2 |
| PSA50  | 17,5 | 43,7 | 61,2 | 78,7 | 96,2  | 113,7 | 131,2 | 148,7 | 166,2 |
| PSA63  | 21   | 47,2 | 68,2 | 89,2 | 110,2 | 131,2 | 152,2 | 173,2 | 194,2 |
| PSA80  | 26   | 63   | 89   | 115  | 141   | 167   | 193   | 219   | 245   |
| PSA120 | 30   | 63   | 93   | 123  | 153   | 183   | 213   | 243   | 273   |

|        | A  | B  | E  | C   | D   |
|--------|----|----|----|-----|-----|
| PSA10  | 36 | 30 |    | 9,5 | 4,3 |
| PSA16  | 36 | 30 |    | 9,5 | 4,3 |
| PSA20  | 36 | 30 |    | 9,5 | 4,3 |
| PSA25  | 36 | 30 |    | 9,5 | 4,3 |
| PSA32  | 48 | 30 | 50 | 10  | 4,3 |
| PSA40  | 48 | 30 | 50 | 10  | 4,3 |
| PSA50  | 48 | 30 | 50 | 10  | 4,3 |
| PSA63  | 48 | 30 | 50 | 10  | 4,3 |
| PSA80  | 68 | 38 | 50 | 13  | 5,2 |
| PSA120 | 68 | 38 | 50 | 13  | 5,2 |

# Cam Switches Selection Table



## Cam Switches Selection Table

| Series    | Terminal Type | Amps       | Type      | Pole     | Angle    | Label    | Option   |
|-----------|---------------|------------|-----------|----------|----------|----------|----------|
| <b>PS</b> | <b>A</b>      | <b>010</b> | <b>AK</b> | <b>1</b> | <b>3</b> | <b>1</b> | <b>S</b> |

|                        |  |   |   |   |  |   |  |
|------------------------|--|---|---|---|--|---|--|
| <b>PS</b> Cam Switches | <b>A</b> Screw<br><b>B</b> Terminal<br><b>C</b> Spring Clamp | <b>010</b> 10 Amp<br><b>016</b> 16 Amp<br><b>020</b> 20 Amp<br><b>025</b> 25 Amp<br><b>032</b> 32 Amp<br><b>040</b> 40 Amp<br><b>050</b> 50 Amp<br><b>063</b> 63 Amp<br><b>080</b> 80 Amp<br><b>120</b> 120 Amp<br><b>160</b> 160 Amp<br><b>200</b> 200 Amp | <b>AK</b> On-Off<br><b>KD</b> Changeover<br><b>KS</b> Step<br><b>KT</b> Multi Step<br><b>MS</b> Motor Control<br><b>CD</b> Double Speed Switch<br><b>OK</b> Measuring switch (Voltmeter-Ampermeter)<br><b>Z*</b> Special Cam Switch | <b>For AK KT MS CD and KD Switches</b><br><b>1</b> 1 Pole<br><b>2</b> 2 Pole<br><b>3</b> 3 Pole<br><b>4</b> 4 Pole<br><br><b>For KS and KT Switches</b><br><b>2</b> 2 Step<br><b>3</b> 3 Step<br><b>4</b> 4 Step<br><b>5</b> 5 Step<br><b>6</b> 6 Step<br><b>7</b> 7 Step<br><b>8</b> 8 Step<br><b>9</b> 9 Step<br><br><b>For Z Switches</b><br><b> </b> No | <b>1</b> 30° Angle<br><b>2</b> 45° Angle<br><b>3</b> 60° Angle<br><b>4</b> 90° Angle<br><b>5</b> 90° Angle (Spring Return) | <b>S</b> 48x48 Normal<br><b>E</b> 48x48 Emergency Yellow Red<br><b>B</b> 64x64 Normal<br><b>F</b> 64x64 Emergency<br><b>AQ</b> Key Operated Quick Installation<br><b>K</b> Lockable Handle<br><b>G</b> 48x48 Emergency Grey-Black<br><b>Q</b> Quick Installation 48x48 Normal<br><b>P</b> Quick Installation 48x48 Emergency Yellow-Red | <b>1</b> 0 1<br><b>2</b> 0 1 2<br><b>3</b> 1 2<br><b>4</b> 1 0 2<br><br><b>Step Switches</b><br><b>2</b> 0 1 2<br><b>3</b> 0 1 2 3<br><b>4</b> 0 1 2 3 4<br><b>5</b> 0 1 2 3 4 5<br><b>6</b> 0 1 2 3 4 5 6<br><b>7</b> 0 1 2 3 4 5 6 7<br><b>8</b> 0 1 2 3 4 5 6 7 8<br><b>9</b> 0 1 2 3 4 5 6 7 8 9<br><br><b>Motor Control Switches</b><br><b>4</b> 1 0 2<br><b>5</b> 0 Y U<br><br><b>Measuring Cam Switches</b><br><b>1</b> 0 R-N S-N T-N<br><b>2</b> 0 R-S S-T R-T<br><b>6</b> 0 1 2 3<br><b>4</b> R-T S-T R-S 0 R-N S-N T-N<br><br><b>Special Rotary Cam Switches</b><br><b> </b> Special Label |
|------------------------|--|---|---|---|--|---|--|

**Example:** PSA032AK131B → PSA Series, 32 A, 1 pole, 60 degrees Rotational, 0-1 on-off Cam switch has been selected.



## Industrial Type Plug & Sockets Selection Table

| Series  | Body Material   | Number Of Contacts  | Type   | Entry  | Locking   | Features   |
|---|---|---|--|--|---|--|
| <b>EB</b>   | <b>M</b>  | <b>10</b>   | <b>FM</b>  | <b>4</b>   | <b>4</b>  | <b>H</b>   |
| <b>EB</b> EB Series Industrial Type Plugs & Sockets | <b>M</b> Metal<br><b>P</b> Plastic<br><b>O</b> Insert | <b>4</b> 4 Poles (10 Amp)<br><b>5</b> 5 Poles (10 Amp)<br><b>6</b> 6 Poles (16 Amp)<br><b>10</b> 10 Poles (16 Amp)<br><b>16</b> 16 Poles (16 Amp)<br><b>24</b> 24 Poles (16 Amp)<br><b>32</b> 32 Poles (16 Amp)<br><b>48</b> 48 Poles (16 Amp)<br><b>606</b> 6 Poles (35 Amp)<br><b>612</b> 12 Poles (35 Amp)<br><b>806</b> 4x80 Amp, 2x16 Amp<br><b>812</b> 8x80 Amp, 4x16 Amp | <b>FU</b> Hood With Male Insert<br><b>FM</b> Housing With Male Insert<br><b>FD</b> Housing With Male Insert (Surface Mounting)<br><b>FE</b> Housing with Male Insert (Sloping)<br><b>PU</b> Hood With Female Insert<br><b>PM</b> Housing With Female Insert<br><b>PD</b> Housing With Female Insert (Surface Mounting)<br><b>PE</b> Female Insert (Sloping)<br><b>CF</b> Male Insert<br><b>CP</b> Female Insert<br><b>GU</b> Hood Only<br><b>GM</b> Housing<br><b>GD</b> Housing (Surface Mounting)<br><b>GE</b> Housing (Sloping) | <b>0</b> Non Entry<br><b>1</b> Side Entry<br><b>2</b> Double Side Entry<br><b>3</b> Top Entry<br><b>4</b> Bottom Entry<br><b>5</b> Bottom & Side Entry | <b>0</b> Without<br><b>1</b> One Handle<br><b>2</b> Two Handle Roller<br><b>4</b> Four Handle Roller<br><b>6</b> Metal Opening (Single Arm)<br><b>7</b> Metal Handle<br><b>8</b> Metal Opening (Double Arm) | <b>H</b> Black<br><b>PG21</b> PG21 Entry<br><b>PG29</b> PG29 Entry |

## IF Series Multi Colour Beacons Selection Table

| Series                                | Diameter   | Type  | Voltage  | Buzzer   | Connection   | Cable Length  |
|---------------------------------------|--|---|--|--|--|---|
| <b>IF</b>                             | <b>5</b>   | <b>M</b>  | <b>024</b>   | <b>X</b>   | <b>M03</b>   | <b>-1</b>   |
| <b>IF</b> Series Multi Colour Beacons | <b>3</b> Ø55 mm Diameter<br><b>5</b> Ø55 mm Diameter<br><b>6</b> Ø65 mm Diameter | <b>M</b> Multifunction<br><b>P</b> PLC in sync<br><b>R</b> Red<br><b>Y</b> Yellow<br><b>G</b> Green<br><b>W</b> White<br><b>B</b> Blue<br><b>T</b> 3 colours<br><b>N</b> NPN PLC compatible<br><b>C</b> 3 Colours | <b>012</b> 012V AC/DC<br><b>030</b> 12-30V DC<br><b>024</b> 024V AC/DC<br><b>110</b> 110V AC<br><b>220</b> 220V AC | <b>X</b> w/o Buzzer<br><b>W</b> Buzzer with Sensitive to Sound<br><b>Z</b> With Buzzer<br><b>XR</b> w/o Buzzer Rotational<br><b>ZR</b> With Buzzer Rotational<br><b>M</b> w/o Buzzer, Mushroom<br><b>O</b> w/o Buzzer, Diamond type<br><b>XF</b> w/o Buzzer, Flash<br><b>ZF</b> With Buzzer, Flash<br><br>W Valid Only for IF6 Series<br>Z-XR-ZR Valid Only for IF5 Series | <b>M01</b> 100mm Plastic Base<br><b>M02</b> 20mm Aluminium Base<br><b>M03</b> 100mm Aluminium Base<br><b>M04</b> 500mm Aluminium Base<br><b>M05</b> 22mm Connection<br><b>M06</b> 200mm Aluminium Base<br><b>S30</b> 30mm Connection<br><b>D01</b> Wall Base<br><b>D02</b> Adjustable Base<br><b>D40</b> Wall Base, Mounting with Tube, Side Entry<br><b>D41</b> Wall Base, Mounting with Tube, Bottom Entry (Cable Gland)<br><b>D50</b> Wall Connection with Base, Side Entry<br><b>D51</b> Wall Connection with Base, Bottom Entry (Cable Gland) | <b>-0.6</b> 0.6 Metre Cable<br><b>-1</b> 1 Metre Cable<br><b>-2</b> 2 Metre Cable<br><b>-3</b> 3 Metre Cable<br><b>-5</b> 5 Metre Cable<br><b>X</b> |

## IT Series Multifunctional Beacon Selection Table

| Series                                  | Diameter                    | Colour   | Voltage   | Type  |
|---|-----------------------------|--|---|---|
| <b>IT</b>                               | <b>120</b>                  | <b>Y</b>   | <b>024</b>  | <b>L</b>  |
| <b>IT</b> Series Multifunctional Beacon | <b>120</b> Ø120 mm Diameter | <b>R</b> Red<br><b>Y</b> Yellow<br><b>G</b> Green<br><b>B</b> Blue | <b>024</b> 024V AC/DC<br><b>48</b> 48V AC<br><b>110</b> 110V AC<br><b>220</b> 220V AC | <b>L</b> with LED<br><b>Z</b> with LED & Buzzer |

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# QUALITY



