- IP65 protection
- Opaque or illuminated
- Metal or Black bezels
- Snap-on contact blocks
- Colour coded contacts
- Pushbutton stations
- International approvals including UL and CSA



## Options and ordering codes

To order - select actuator + mounting collar + contacts


## Exploded view



Selection and product pricing
OPAQUE $\bigcirc$ M etal Bezel Black Bezel ILLUMINATED


## Options and ordering codes



Selection and product pricing
CONTACT ASSEM BLIES

D escription
1 make
1 break

LAM P HOLDER AND CONTACT ASSEM BLIES


| Description |
| :--- |
| Lamp holder only (1.7W max) |
| Lamp holder with dropper resistor |
| 110 or 230 V AC - down to 42 V |
| Lamp holder with series resistor |
| 230 down to 130 V 2.6 W |
| Lamp holder and transformer |
| 230 or 415 V AC - down to 6 V |
| Transformer only |
| 230 or 415 V AC - down to 6 V |

## Accessories



| Description |
| :--- |
| Lamps BA9S |
| 6 V 24 V 42 V 1.2 W 130 V 2.6 W |
| Neon 240 V 110 V |
| Legend plate with holder |
| Holder |
| Blank |
| Legends-start-stop-reset-fwd-rev-HOA |
| M ounting Collar |
| Base or DIN mounting adaptor |
| Sealing shroud 0 to $50^{\circ} \mathrm{C}$ |
| Sealing shroud -40 to $+60^{\circ} \mathrm{C}$ |
| Spare key |
| Adaptor ring for 30.5 mm holes |
| Coupler for BKLG enclosures |
| Actuator - insert for centre position |

## Selection and product pricing

| Description |  | Description |  |
| :---: | :---: | :---: | :---: |
| Enclosures Single Single with yellow lid Double Triple <br> Assembled units Emergency stop 40mm maintained turn to release yellow lid with $2 \mathrm{~N} / \mathrm{C}$ contacts <br> Emergency stop 40 mm maintained key release yellow lid with $2 \mathrm{~N} / \mathrm{C}$ contacts <br> Start-stop flush green and red pushbuttons 2 way with $1 \mathrm{~N} / \mathrm{O}$ and $1 \mathrm{~N} / \mathrm{C}$ contact <br> M ushroom pushbutton red Ø70mm yellow lid with $2 \mathrm{~N} / \mathrm{C}$ contacts <br> Foot and Palm switch mushroom pushbutton $\varnothing 70 \mathrm{~mm}$ grey with $1 \mathrm{~N} / \mathrm{O}$ and $1 \mathrm{~N} / \mathrm{C}$ contacts |  |  |  |

## Exploded view enclosure assembly

A Enclosure base with built in contact block clips
B Contact blocks/ lamp holders
C Locking ring
D Enclosure lid
E Legend plates
F Captive screws (after screw in) loose in enclosure on delivery
G Actuators and lens caps


## Technical data

| Terminal markings for control units according to DIN EN 50013 |  |  |  |  | Colour code |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Distinc. <br> number Contacts <br> elements <br> 10 $H_{14}^{13}$ | Distinc. Contacts <br> elements <br> number   | Distinc. Contacts <br> elements <br> number   | Distinc. Contacts <br> number <br> elements lan | Distinc. Contacts <br> number <br> elements   <br>   <br> 01 $1-4$ | The actuators of the contact blocks are colour coded, green for NO, red for NC. The colour code permits to know the function of contacts at first sight and gives additional safety against wrong wiring. |
| $20 \underset{1424}{13}-1$ | 11 |  |  | 02 $\begin{array}{r} 11 \\ 12 \\ 1-4 \\ -4 \\ 12 \end{array}$ | $\square \mathrm{m}$ |
| $30 \quad \int_{14}^{1} \begin{array}{llll} 1 & 23 & 33 \\ 1 & 1 & 1 \\ 1 \end{array}$ | 21 |  |  | 03 |  |
| 40 $\begin{gathered} 133233 \\ 1-f_{14}^{1}-y_{24}^{1}-f^{1}-1 \end{gathered}$ | 31 | $22 \underset{14}{13} 1$ | 13 | 04 |  |

## Specifications

| Data according to IEC947-5-1, VDE 0660, EN 60947-5-1 |  |  |  |
| :---: | :---: | :---: | :---: |
| Rated insulation voltage |  | V AC | 500 |
| AC12-resistive loads | $220-240 \mathrm{~V}$ | A | 10 |
|  | 380-415V | A | 10 |
| AC15-Electromagnetic loads | $220-240 \mathrm{~V}$ | A | 6 |
|  | 380-415V | A | 5 |
| DC12-resistive L/R = 1mS | 24 V | A | 10 |
|  | 60 V | A | 6 |
|  | 110 V | A | 2.5 |
|  | 220 V | A | 0.8 |
| DC14-Electromagnetic $L / R=15 \mathrm{mS}$ With economy resistors | 24 V | A | 8 |
|  | 60 V | A | 1 |
|  | 110 V | A | 2 |
|  | 220 V | A | 0.5 |
| DC13-Electromagnets L/R $=300 \mathrm{mS}$ | 24 V | A | 2 |
|  | 60 V | A | 5 |
|  | 110 V | A | 0.5 |
|  | 220 V | A | 0.2 |
| M echanical life | M illions of operations |  | 10 |
| Contact life (AC15) |  |  |  |
| 100VA | Millions of operations |  | 10 |
| 300VA 800VA |  |  | 3 |
| $\begin{array}{r} \text { 800VA } \\ 1200 \mathrm{VA} \end{array}$ |  |  | 0.5 |
| M aximum frequency of operations | Ops per hour |  | 600 |
| Short circuit protection | slow gL | A | 10 |
| Ambient temperature |  | ${ }^{\circ} \mathrm{C}$ | -20 to +50 |
| Cable cross-section | Solid | $\mathrm{mm}^{2}$ | 0.5-2.5 |
|  | Cables per clamp $\begin{array}{r}\text { F } \text { Sible }\end{array}$ | $\mathrm{mm}^{2}$ | 0.5-2.5 |
| M ounting hole |  | $\emptyset \mathrm{mm}$ | 22.5 |
| M ounting position |  |  | Optional |
| Terminal screws |  | Pozidrive No 2 screws 3.5 |  |

Dimensions (mm)

System B3
Panel mounting


Base mounting


DIN-rail mounting


M ounting holes
Contact blocks
Lamp holders B4...


Dimensions of minimum space requirements (according to EN 50007 and IEC $337-2 C$ ). Take to consideration the field of traverse of swing knobs ( 27 mm ) and the diameter of mushroom heads.



Enclosures for Custom Built Stations
Three conduit entries (knockouts), each on top, left and right side, suitable for Pg 13.5. Version "CSA" with three knockouts Ø 22.2 mm .




