






### ROTARY SWITCHES Ø22 | IP67-IP69K

#### WITH OPERATOR

#### WITH LIGHT OPERATOR

#### WITH KEY



| POSITION   | COLOUR INDEX | CODE      | COLOUR INDEX | CODE      | KEY REMOVAL |   |   | CODE       |
|--|--------------|-----------|--------------|-----------|-------------|---|---|------------|
|  |              |           |              |           | L           | O | R |            |
| <br>90°   | ■            | PSMB1D0GL | ■            | PSML1D0GL |             | * |   | PSCR8D0CGL |
|  | ■            | PSMB2D0GL | ■            | PSML2D0GL |             |   | * | PSCR8D0EGL |
|  | ■            | PSMB3D0GL | ■            | PSML3D0GL |             |   | * | PSCR8D0NGL |
|  | ■            | PSMB4D0GL | ■            | PSML4D0GL |             |   | * |            |
|  | ■            | PSMB5D0GL | ■            | PSML5D0GL |             |   | * |            |
|  | ■            | PSMB8D0GL | ■            | PSML8D0GL |             |   | * |            |
| <br>45°   | ■            | PSMB1D1GL | ■            | PSML1D1GL |             | * |   | PSCR8D1CGL |
|  | ■            | PSMB2D1GL | ■            | PSML2D1GL |             |   | * | PSCR8D1EGL |
|  | ■            | PSMB3D1GL | ■            | PSML3D1GL |             |   | * | PSCR8D1NGL |
|  | ■            | PSMB4D1GL | ■            | PSML4D1GL |             |   | * |            |
|  | ■            | PSMB5D1GL | ■            | PSML5D1GL |             |   | * |            |
|  | ■            | PSMB8D1GL | ■            | PSML8D1GL |             |   | * |            |
| <br>45° | ■            | PSMB1D2GL | ■            | PSML1D2GL |             |   | * | PSCR8D2CGL |
|  | ■            | PSMB2D2GL | ■            | PSML2D2GL |             |   | * |            |
|  | ■            | PSMB3D2GL | ■            | PSML3D2GL |             |   | * |            |
|  | ■            | PSMB4D2GL | ■            | PSML4D2GL |             |   | * |            |
|  | ■            | PSMB5D2GL | ■            | PSML5D2GL |             |   | * |            |
|  | ■            | PSMB8D2GL | ■            | PSML8D2GL |             |   | * |            |
| <br>45° | ■            | PSMB1T0GL | ■            | PSML1T0GL | *           | * |   | PSR8T0CGL  |
|  | ■            | PSMB2T0GL | ■            | PSML2T0GL | *           | * | * | PSR8T0AGL  |
|  | ■            | PSMB3T0GL | ■            | PSML3T0GL | *           | * | * | PSR8T0EGL  |
|  | ■            | PSMB4T0GL | ■            | PSML4T0GL | *           | * | * | PSR8T0GGL  |
|  | ■            | PSMB5T0GL | ■            | PSML5T0GL | *           | * | * | PSR8T0HGL  |
|  | ■            | PSMB8T0GL | ■            | PSML8T0GL | *           | * | * | PSR8T0KGL  |
| <br>45° | ■            | PSMB1T3GL | ■            | PSML1T3GL |             |   | * | PSCR8T3CGL |
|  | ■            | PSMB2T3GL | ■            | PSML2T3GL |             |   | * |            |
|  | ■            | PSMB3T3GL | ■            | PSML3T3GL |             |   | * |            |
|  | ■            | PSMB4T3GL | ■            | PSML4T3GL |             |   | * |            |
|  | ■            | PSMB5T3GL | ■            | PSML5T3GL |             |   | * |            |
|  | ■            | PSMB8T3GL | ■            | PSML8T3GL |             |   | * |            |
| <br>45° | ■            | PSMB1T2GL | ■            | PSML1T2GL |             | * |   | PSCR8T2CGL |
|  | ■            | PSMB2T2GL | ■            | PSML2T2GL |             |   | * | PSCR8T2AGL |
|  | ■            | PSMB3T2GL | ■            | PSML3T2GL |             |   | * | PSCR8T2HGL |
|  | ■            | PSMB4T2GL | ■            | PSML4T2GL |             |   | * |            |
|  | ■            | PSMB5T2GL | ■            | PSML5T2GL |             |   | * |            |
|  | ■            | PSMB8T2GL | ■            | PSML8T2GL |             |   | * |            |
| <br>45° | ■            | PSMB1T1GL | ■            | PSML1T1GL |             | * |   | PSCR8T1CGL |
|  | ■            | PSMB2T1GL | ■            | PSML2T1GL |             |   | * | PSCR8T1EGL |
|  | ■            | PSMB3T1GL | ■            | PSML3T1GL |             |   | * | PSCR8T1NGL |
|  | ■            | PSMB4T1GL | ■            | PSML4T1GL |             |   | * |            |
|  | ■            | PSMB5T1GL | ■            | PSML5T1GL |             |   | * |            |
|  | ■            | PSMB8T1GL | ■            | PSML8T1GL |             |   | * |            |

1 For standard rotary switches suitable to operate a central contact, replace the letter "B" with the letter "C": PSMC  
2 For rotary switches with Left - Right operating angles replace the letters "DO" with "SD": PSMB100 or PSCR85DE


\* Key removable position


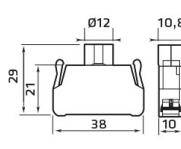
**CONTACT BLOCKS | SPRING LOADED TERMINALS**




| DESIGNATION   | FUNCTION   | CODE  | SIZES   |
|---|--|-------|---|
|  |  | PCW01 |  |
|  |  | PCW10 |   |


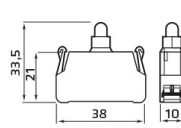
**LAMPHOLDER BA9s**

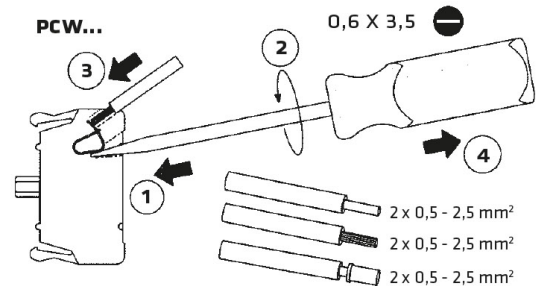
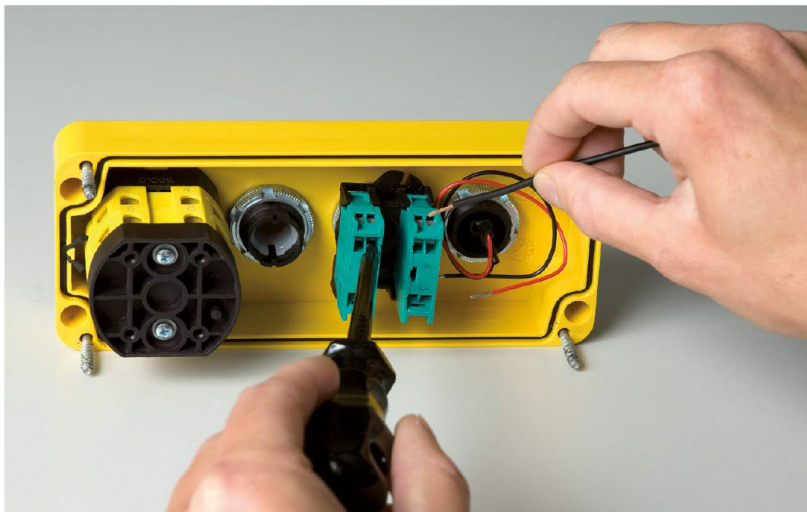


| DESIGNATION   | POWER SUPPLY  | CODE  | SIZES   |
|---|---|-------|---|
|  | BA9s Lamp socket<br>250V 2.4 W max<br>Bulb not included | PCWAD |  |


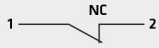
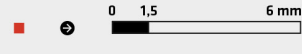
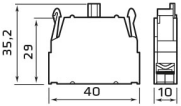
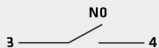
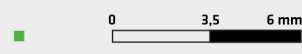
**LAMPHOLDER WITH BUILT-IN LED**




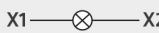
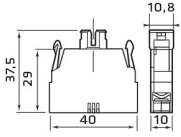
| DESIGNATION   | FUNCTION   | CODE     | SIZES   |
|---|------------|----------|---|
|  | AC/DC 12V  | PCW5L12  |  |
|   | AC/DC 24V  | PCW5L24  |   |
|   | AC/DC 48V  | PCW5L48  |   |
|   | AC/DC 110V | PCW5L110 |   |
|   | AC 220V    | PCW5L220 |   |





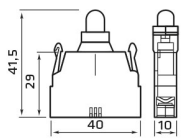
**CONTACT BLOCKS | SCREW TERMINALS**

|  | DESIGNATION  | FUNCTION   | CODE     | SIZES   |
|---|--|--|----------|---|
|   |   |  | PL004001 |  |
|  |  | PL004002   |          |   |

**LAMPHOLDER BA9s**

|  | DESIGNATION   | POWER SUPPLY  | CODE     | SIZES   |
|---|---|---|----------|---|
|   |  | BA9s Lamp socket<br>250V 2,4 W max<br>Bulb not included | PL004007 |  |

**LAMPHOLDER WITH BUILT-IN LED**

|  | DESIGNATION   | FUNCTION   | CODE       | SIZES   |
|---|---|------------|------------|---|
|   |  | AC/DC 12V  | PL0045L12  |  |
|   |   | AC/DC 24V  | PL0045L24  |   |
|   |   | AC/DC 48V  | PL0045L48  |   |
|   |   | AC/DC 110V | PL0045L110 |   |
|   |   | AC 220V    | PL0045L220 |   |

#### TECHNICAL DATA | ELECTRICAL CHARACTERISTICS

##### CONTACT BLOCKS

| EC/EN 60947-5-1 CHARACTERISTICS             |             | PLO04001-PLO04002                  |     |      |     |       |     |     |     | PCW01-PCW10 / PSC01-PSC10          |    |     |     |      |     |     |     |
|---|-------------|------------------------------------|-----|------|-----|-------|-----|-----|-----|------------------------------------|----|-----|-----|------|-----|-----|-----|
| Rated insulation voltage Ui                 | V           | 690*                               |     |      |     |       |     |     |     | 690*                               |    |     |     |      |     |     |     |
| Rated impulse withstand voltage Uimp        | kV          | 4*                                 |     |      |     |       |     |     |     | 4*                                 |    |     |     |      |     |     |     |
| Operating frequency                         | Hz          | 50/60*                             |     |      |     |       |     |     |     | 50/60*                             |    |     |     |      |     |     |     |
| Rated thermal current Ith                   | A           | 16*                                |     |      |     |       |     |     |     | 16*                                |    |     |     |      |     |     |     |
| Rated thermal current in enclosed Ithe      | Hz          | 10*                                |     |      |     |       |     |     |     | 10*                                |    |     |     |      |     |     |     |
| RATED OPERATING CURRENT Ie:                 |             | PLO04001-PLO04002                  |     |      |     |       |     |     |     | PCW01-PCW10 / PSC01-PSC10          |    |     |     |      |     |     |     |
| AC15: Alternate current                     | V           | 24                                 | 60  | 110  | 230 | 400   | 440 | 500 | 690 | 24                                 | 60 | 110 | 240 | 400  | 440 | 500 | 690 |
|   | A           | 16*                                | 12  | 8    | 6   | 4,5   | 3,5 | 1*  | 1   | 16*                                | 12 | 5   | 5*  | 4    | 4   | 4*  | 2*  |
| DC13: Direct current                        | V           | 24                                 | 48  | 60   | 110 | 220   |     |     |     | 24                                 | 48 | 60  | 110 | 250  |     |     |     |
|   | A           | 2*                                 | 1,2 | 0,85 | 0,4 | 0,25* |     |     |     | 2                                  | 2* | 1*  | 0,4 | 0,4* |     |     |     |
| Conditional short circuit withstand current | A           | 1000*                              |     |      |     |       |     |     |     | 1000*                              |    |     |     |      |     |     |     |
| Fuse rating gG                              | 500V        | 10A*                               |     |      |     |       |     |     |     | 10A*                               |    |     |     |      |     |     |     |
| Contact insulation resistance               | mΩ          | <25                                |     |      |     |       |     |     |     | <25                                |    |     |     |      |     |     |     |
| Switching mechanism                         |             | Slow break double gap contacts     |     |      |     |       |     |     |     | Slow break double gap contacts     |    |     |     |      |     |     |     |
| Contact duty                                |             | ⊕ NC contact with positive opening |     |      |     |       |     |     |     | ⊕ NC contact with positive opening |    |     |     |      |     |     |     |
| Minimum tripping force                      |             | 4N                                 |     |      |     |       |     |     |     | 4N                                 |    |     |     |      |     |     |     |
| Electrical life AC15                        | mil. cycles | 1A/1,5 - 2A/0,5 - 3A/0,25          |     |      |     |       |     |     |     | 1A/1,5 - 2A/0,5 - 3A/0,25          |    |     |     |      |     |     |     |
| UL 508 CHARACTERISTICS                      |             | PLO04001-PLO04002                  |     |      |     |       |     |     |     | PCW01-PCW10 / PSC01-PSC10          |    |     |     |      |     |     |     |
| General Use                                 |             | 10A-600V ac - 2,5A-125V dc         |     |      |     |       |     |     |     | 10A-600V ac - 2,5A-125V dc         |    |     |     |      |     |     |     |
| Heavy Duty (HD) category                    |             | A600-Q600                          |     |      |     |       |     |     |     | A600-Q600                          |    |     |     |      |     |     |     |

##### LAMP HOLDER

| EC/EN 60947-5-1 CHARACTERISTICS |   | BUILT-IN LED                  |  |
|---------------------------------|---|-------------------------------|--|
|                                 |   | LED PLO04.L.<br>PCW.L.-PSC.L. |  |
| Rated insulation voltage Ui     | V | 400                           |  |
| Rated operating voltage Ue      | V | AC/DC 12-24                   |  |
|                                 | V | AC/DC 48                      |  |
|                                 | V | AC/DC 110                     |  |
|                                 | V | AC 220                        |  |
| Max rated power                 | W | -                             |  |
| Power supply                    |   | -                             |  |
| Lamp fixing system              |   | -                             |  |

#### TECHNICAL DATA | ELECTRICAL CHARACTERISTICS

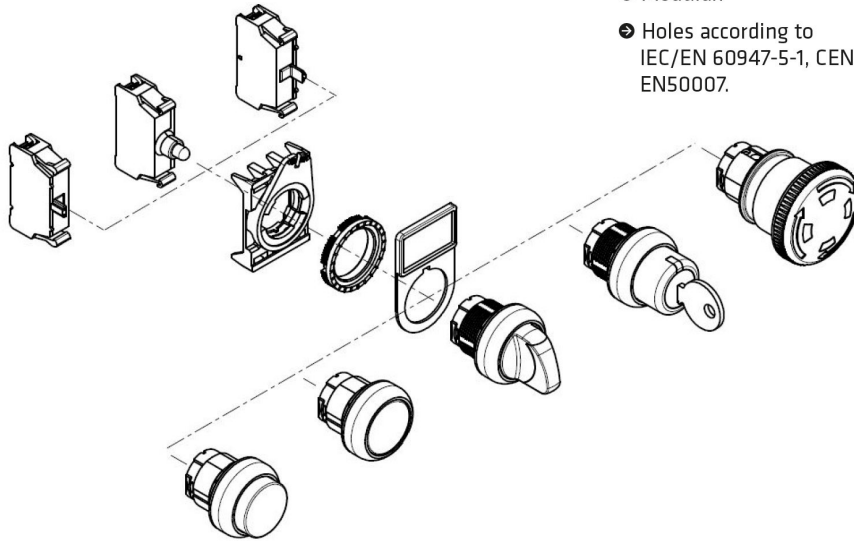
| STANDARD CONFORMITY                      |   | UL - IMQ - R.I.NA   |  |
|--|---|---|--|
| Approvals                                |   | IEC/EN60947-5-1, UL508  |  |
| Protection class                         | EN 60529 BLACK LINE<br>EN 60529 GREY LINE<br>Conforms to UL50 | IP65: Buttons and switches, Multifunction push button<br>IP66/IP67/IP69K: Buttons and switches, Multifunction push button |  |
| Material Group                           | EN60947-1   | Type 1  |  |
| Pollution Grade                          | EN60947-1   | II  |  |
| Flammability                             | UL94  | 3   |  |
| Ambient Temperature                      | °C  | VO: live parts<br>Operating: -25 +70  |  |
|  | °C  | Storage: -30 +70  |  |
| Climate Protection                       | IEC68 part 2-3<br>IEC68 part 2-30                             | Hot damp<br>Unsettled Hot damp  |  |
| <b>Mechanical life:</b>                  |   |   |  |
| Mushroom operators and standard          | mil./operations   | 3   |  |
| Push buttons with colour cap             |   |   |  |
| Standard push buttons with lens cap      |   | 1   |  |
| Standard rotary switches                 |   | 1   |  |
| Rotary switches with lens                |   | 0,5   |  |
| Emergency stop push buttons with release |   | 0,3   |  |

■ UL certified values \* IMQ values

**ASSEMBLY INSTRUCTIONS**

**ASSEMBLY**

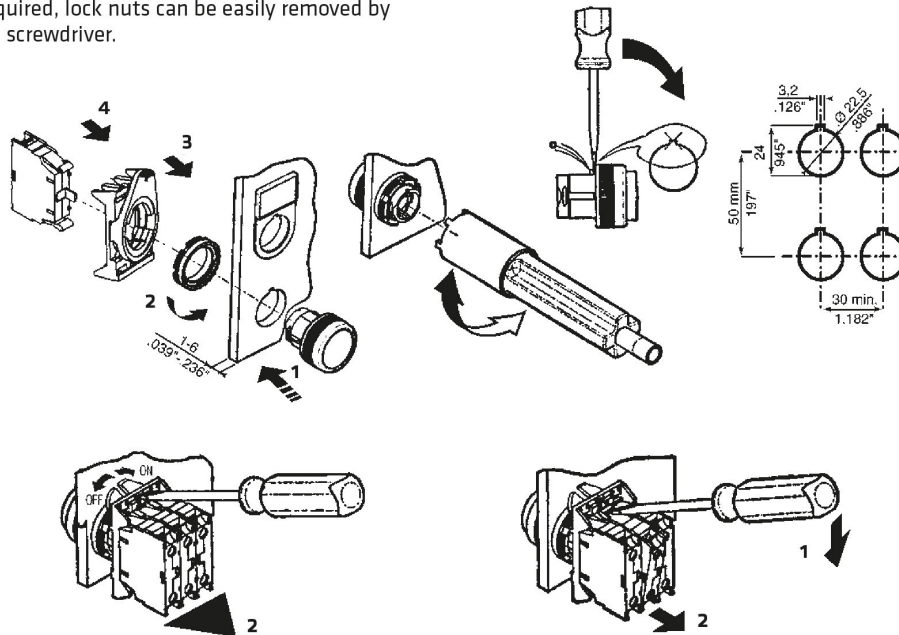
- Modular.
- Holes according to IEC/EN 60947-5-1, CENELEC EN50007.



**CENELEC EN50007**

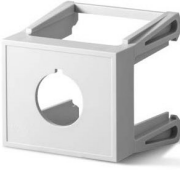
- Panel thickness from 1 up to 6 mm.

● If not required, lock nuts can be easily removed by means of a screwdriver.

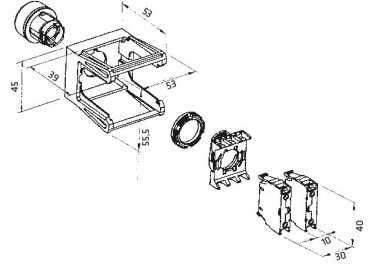


**ACCESSORIES | ORION SERIES**

**DIN RAIL MOUNTING ADAPTOR**



| DESCRIPTION  | CODE     |
|--|----------|
| DIN EN50022<br>RAIL MOUNTING<br>FOR 46 MM<br>STANDARDISED<br>ENCLOSURES<br>GREY RAL 7035 | 11708351 |




**KEY FIXING BULB EXTRACTOR**



| CODE |
|------|
| PCF  |

**CONTACTS SUPPORT**



| DESCRIPTION                            | CODE   | DESCRIPTION                                 | CODE     |
|--|--------|---|----------|
| TO CONTACT<br>ELEMENTS<br>PL, PCW, PSC | PPELN8 | TO FIVE CONTACT<br>ELEMENTS<br>PL, PCW, PSC | PPELN8-5 |