

# Actuator

14-  
502.02502

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## 14-502.02502

### Actuator

#### FRONT

|                       |           |
|-----------------------|-----------|
| Front form:           | Round     |
| Front bezel colour:   | Nature    |
| Front bezel material: | Aluminium |

#### MOUNTING

|                |                |
|----------------|----------------|
| Mounting type: | Panel mounting |
|----------------|----------------|

#### OPERATING-/INDICATION PART

|                 |         |
|-----------------|---------|
| Lever colour:   | Black   |
| Lever material: | plastic |
| Lever shape:    | short   |

#### ELECTRICAL CHARACTERISTICS

|                                          |                                                                                                                                                                                                                                                                                    |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switching voltage and switching current: | 250 VAC, 5 A (ohmic)<br>250 VAC, 3 A (Soldering terminal)<br>250 VAC, 2 A (inductive, $\cos(\phi) = 0.7$ )<br>220 VDC, 0.1 A (inductive, L:R = 30 ms)<br>110 VDC, 0.2 A (inductive, L:R = 30 ms)<br>60 VDC, 0.7 A (inductive, L:R = 30 ms)<br>24 VDC, 2 A (inductive, L:R = 30 ms) |
| Contacts:                                | 2 NC / 2 NO                                                                                                                                                                                                                                                                        |
| Rated Operational Voltage $U_e$ :        | 250 VAC/DC according to EN IEC 61058-1                                                                                                                                                                                                                                             |
| Switching rating:                        | 250 V @ 3 A                                                                                                                                                                                                                                                                        |
| Electrical lifetime:                     | 50 000 cycles of operation                                                                                                                                                                                                                                                         |
| Electric strength:                       | 3000 VAC, 50 Hz, 1 min. between all terminals and earth, according to EN/IEC 61058-1                                                                                                                                                                                               |

|                                        |                                                                                                                        |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Protection class:</b>               | II                                                                                                                     |
| <b>Standards:</b>                      | According to EN/IEC 61058-1                                                                                            |
| <b>Thermal current I<sub>th</sub>:</b> | The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values.<br>3 A |

## MECHANICAL CHARACTERISTIC

|                             |                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Terminal:</b>            | Soldering terminal                                                                                                   |
| <b>Contact material:</b>    | Gold                                                                                                                 |
| <b>Switching action:</b>    | Rest - Momentary                                                                                                     |
| <b>Switching system:</b>    | Snap-action switching element                                                                                        |
| <b>Switching system:</b>    | Self-cleaning, double-break snap action switching system, 1 normally closed and 1 normally open contact per element. |
| <b>Switching positions:</b> | 2 positions                                                                                                          |
| <b>Switching angle:</b>     | 42° right                                                                                                            |
| <b>Mechanical lifetime:</b> | 2 Mil. cycles of operation                                                                                           |
| <b>Operating force:</b>     | 3 N ... 6 N, depending on the number of switching elements                                                           |
| <b>Operating Travel:</b>    | ca. 42°                                                                                                              |
| <b>Tightening torque:</b>   | Fixing nut max. 0.25 Nm                                                                                              |
| <b>Weight:</b>              | 0.026 kg                                                                                                             |

## AMBIENT CONDITION

|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>IP front protection:</b>   | IP67, according to DIN EN 60529                                                                     |
| <b>Operating temperature:</b> | – 25 °C ... + 55 °C, mounted as a block, make sure the heat can escape freely                       |
| <b>Storage temperature:</b>   | – 40 °C ... + 85 °C                                                                                 |
| <b>Shock resistance:</b>      | Max. 150 m / s <sup>2</sup> , pulse width 11 ms, 3-axis, (semi-sinusoidal as per EN IEC 60068-2-27) |
| <b>Vibration resistance:</b>  | Max. 100 m / s <sup>2</sup> from 10 Hz ... 500 Hz, (sinusoidal EN IEC 60068-2-6)                    |
| <b>Climate resistance:</b>    | Standard condition, as per DIN EN 60068-2-78<br>Standard cyclic, as per DIN IEC 60068-2-30          |

## CERTIFICATE

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| <b>Approbations:</b> | CB (IEC 61058-1), CQC, CSA, DNV, EAC, ENEC (EN 61058-1), UL, VDE |
| <b>Conformities:</b> | CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD)            |
| <b>REACH:</b>        |                                                                  |

REACH compliant

**RoHS:**

RoHS compliant

## OTHER

### Short Description:

Actuator, non illuminative, Black, short, Round, Nature, Aluminium, anodised, 2 NC / 2 NO, Rest - Momentary, Soldering terminal, IP67, according to DIN EN 60529

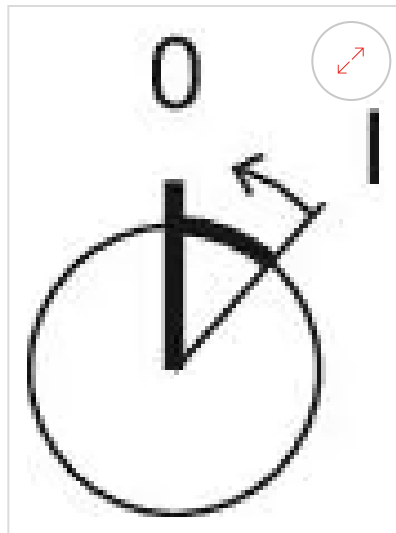
### Hints:

The colour of anodised aluminium parts can vary due to technical production reasons

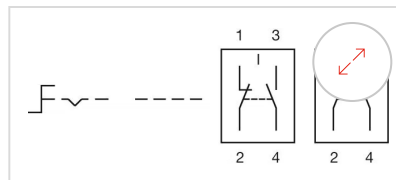
**max. number of switching elements:**

2

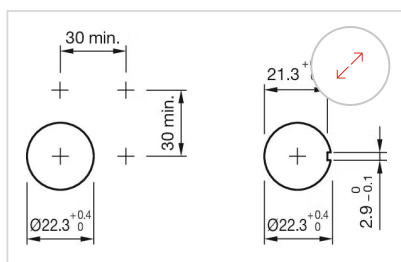
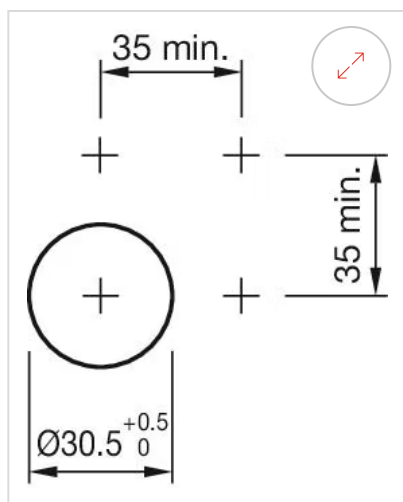
### Switching positions:



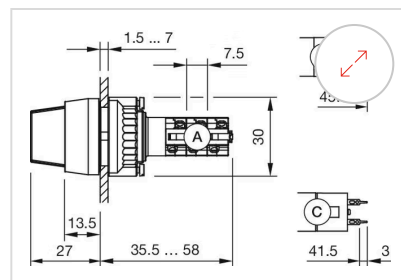
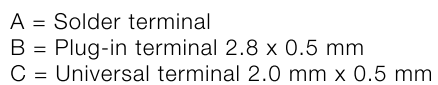
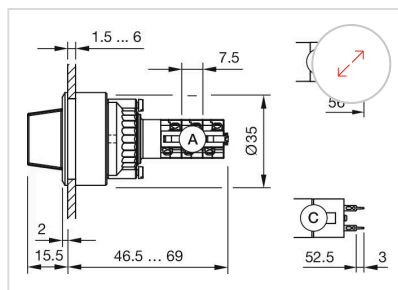
### Wiring diagrams:



### Mounting cut-outs:



**Dimension drawings:**



A = Solder terminal  
B = Plug-in terminal 2.8 x 0.5 mm  
C = Universal terminal 2.0 mm x 0.5 mm