

# Actuator

14-  
506.0220

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Mouser



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## 14-506.0220 Actuator

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### FRONT

|                              |           |
|------------------------------|-----------|
| <b>Front form:</b>           | Round     |
| <b>Front bezel colour:</b>   | Nature    |
| <b>Front bezel material:</b> | Aluminium |

### MOUNTING

|                       |                |
|-----------------------|----------------|
| <b>Mounting type:</b> | Panel mounting |
|-----------------------|----------------|

### OPERATING-/INDICATION PART

|                        |         |
|------------------------|---------|
| <b>Lever colour:</b>   | Black   |
| <b>Lever material:</b> | plastic |
| <b>Lever shape:</b>    | short   |

### ELECTRICAL CHARACTERISTICS

|  |  |
|--|--|
| <b>Switching voltage and switching current:</b>    | 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) |
| <b>Contacts:</b>                                   | 1 NC / 1 NO  |
| <b>Rated Operational Voltage <math>U_e</math>:</b> | 250 VAC/DC according to EN IEC 61058-1   |
| <b>Switching rating:</b>                           | 250 V AC @ 3 A   |
| <b>Electrical lifetime:</b>                        | 50 000 cycles of operation   |
| <b>Electric strength:</b>                          | 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 CHARACTERISTICS

|                             |  |
|-----------------------------|--|
| <b>Terminal:</b>            | Plug-in terminal, 2.8 x 0.5 mm   |
| <b>Contact material:</b>    | Gold-plated silver   |
| <b>Switching action:</b>    | Rest - Maintained  |
| <b>Switching system:</b>    | Snap-action switching element  |
| <b>Switching system:</b>    | Self-cleaning, double-break snap action switching system (contact opening width 2 mm x 0.5 mm), 1 normally closed and 1 normally open contact per element. |
| <b>Switching positions:</b> | 2 positions  |
| <b>Switching angle:</b>     | 90° right  |
| <b>Mechanical lifetime:</b> | 1 Mil. cycles of operation   |
| <b>Operating force:</b>     | 5 N ... 8 N  |
| <b>Operating Travel:</b>    | ca. 90°  |
| <b>Tightening torque:</b>   | Fixing nut max. 0.25 Nm  |
| <b>Terminal details 1:</b>  | Snap-action switching element with axial soldering terminals, which can also be used as plug-in terminals 2.8 x 0.5mm                                      |
| <b>Weight:</b>              | 0.024 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 |
|----------------------|--|

**Conformities:** CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD)

**REACH:** REACH compliant

**RoHS:** RoHS compliant

**OTHER**

**Short Description:** Actuator, non illuminative, Black, short, Round, Nature, Aluminium, anodised, 1 NC / 1 NO, Rest - Maintained, Plug-in terminal, 2.8 x 0.5 mm, IP67, according to DIN EN 60529

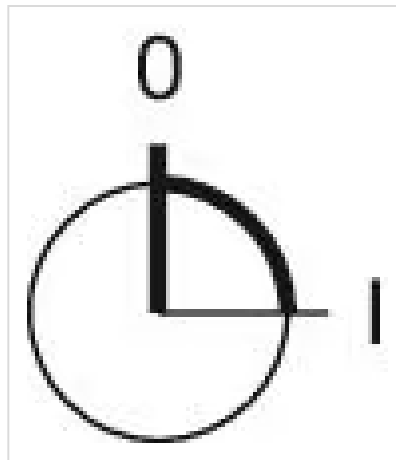
**Housing colour:** Black

**Housing material:** Plastic

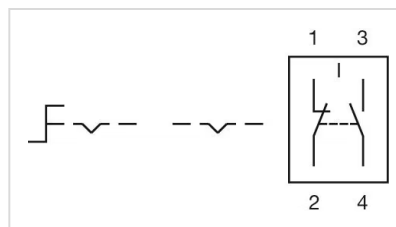
**Hints:** The colour of anodised aluminium parts can vary due to technical production reasons

**max. number of switching elements:** 1

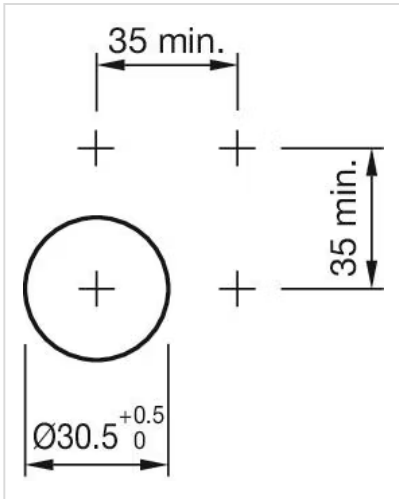
**Switching positions:**



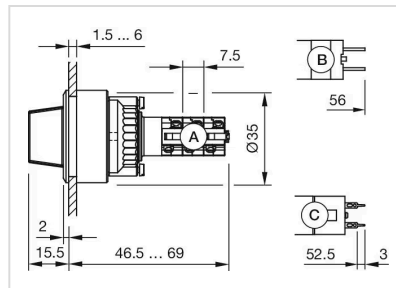
**Wiring diagrams:**



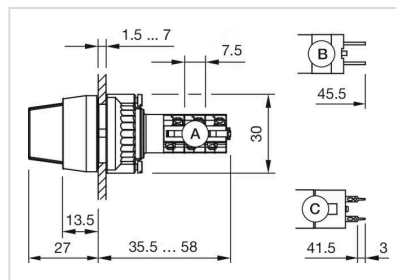
**Mounting cut-outs:**



**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



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