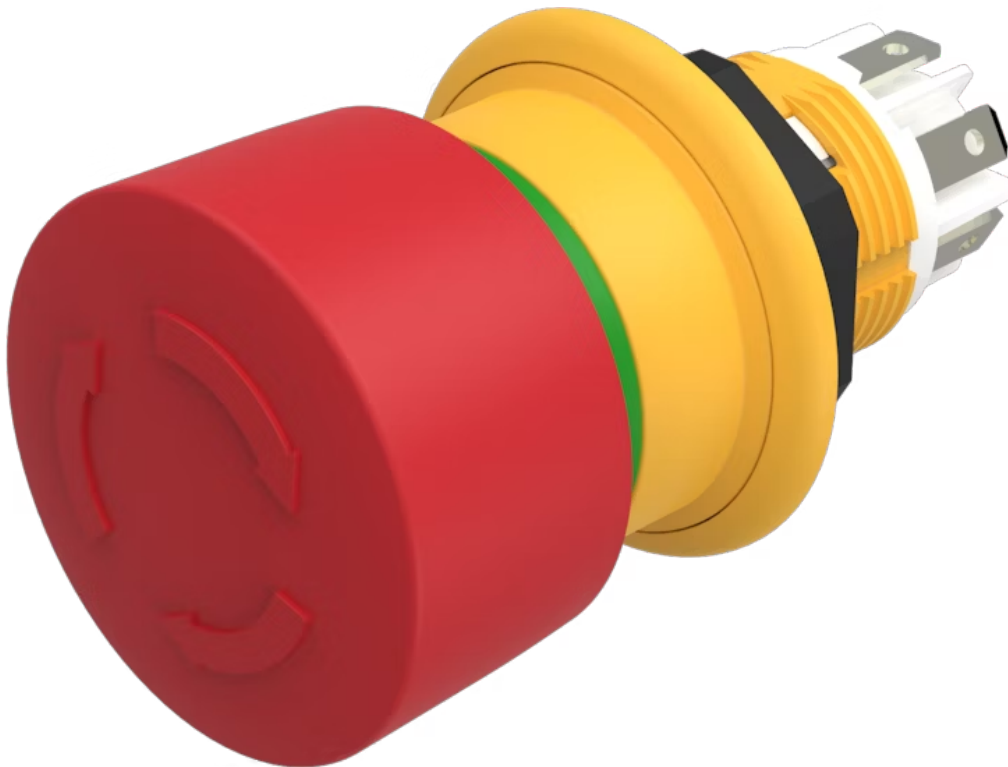


# Actuator

61-  
6441.4067



<https://eao.com/p/61-6441.4067>

Your product:



61-6441.4067  
Actuator

FRONT

|                  |         |
|------------------|---------|
| Front dimension: | Ø 27 mm |
| Front form:      | round   |

MOUNTING

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

OPERATING-/INDICATION PART

|                    |                  |
|--------------------|------------------|
| Lens colour:       | Red              |
| Lens material:     | Plastic          |
| Lens illumination: | non illuminative |
| Lens shape:        | mushroom-head    |

ELECTRICAL CHARACTERISTICS

|                                          |                                                                                                                                                                                                             |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contacts:                                | 3 NC                                                                                                                                                                                                        |
| Contact resistance:                      | At 20 mV, 100 mA (IEC 60512-2-1) Insulation resistance<br>2 MΩ between the open contacts<br>7 MΩ towards the panel (DIN IEC 60512-3-1)                                                                      |
| Switching voltage and switching current: | Alternating current usage category AC-15<br>according to EN IEC 60947-5-1<br>Voltage 50 VAC<br>Current 0,2 A<br>DC usage category DC-13<br>according to EN IEC 60947-5-1<br>Voltage 50 VDC<br>Current 0,2 A |
| Rated Operational Voltage Ue:            | 50 VAC / DC, according to EN / IEC 60947-5-1                                                                                                                                                                |
| Rated impulse withstand voltage Uimp:    | 0.5 kV, according to EN / IEC 60947-1                                                                                                                                                                       |

|                                                   |                                                                                                      |         |          |         |      |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------|---------|----------|---------|------|
| <b>Rated insulation voltage <math>U_i</math>:</b> | 250 VAC/DC according to EN IEC 60947-1                                                               |         |          |         |      |
| <b>Rated short-circuit current caused:</b>        | 1 000 A, type of short-circuit device 2 A gG (EN 60947-5-1)                                          |         |          |         |      |
| <b>Recommended minimum operational data:</b>      | <table> <tr> <td>Voltage</td><td>1 VAC/DC</td></tr> <tr> <td>Current</td><td>1 mA</td></tr> </table> | Voltage | 1 VAC/DC | Current | 1 mA |
| Voltage                                           | 1 VAC/DC                                                                                             |         |          |         |      |
| Current                                           | 1 mA                                                                                                 |         |          |         |      |
| <b>Electrical lifetime:</b>                       | $\geq 20\,000$ cycles of operation                                                                   |         |          |         |      |
| <b>Electric strength:</b>                         | 500 VAC, 50 Hz, 1 minute according to DIN IEC 60512-2                                                |         |          |         |      |
| <b>Overvoltage category:</b>                      | II, according to EN / IEC 61058-1                                                                    |         |          |         |      |
| <b>Pollution degree:</b>                          | 3, according to EN IEC 60947-1                                                                       |         |          |         |      |
| <b>Protection class:</b>                          | II, according to EN / IEC 60947-5                                                                    |         |          |         |      |
| <b>Standards:</b>                                 | According to EN 60947-5-1, EN 60947-5-5, DIN EN ISO 13850, EN IEC 60204                              |         |          |         |      |
| <b>Thermal current <math>I_{th}</math>:</b>       | 0.5 A (EN IEC 60947-5-1 / max. current in continuous operation at max. + 55 degrees C)               |         |          |         |      |

## MECHANICAL CHARACTERISTIC

|                             |                                    |
|-----------------------------|------------------------------------|
| <b>Terminal:</b>            | Plug-in terminal, 2.8 x 0.5 mm     |
| <b>Switching action:</b>    | Maintained                         |
| <b>Release type:</b>        | Twist to unlock                    |
| <b>Mechanical lifetime:</b> | $\geq 20\,000$ cycles of operation |
| <b>Operating force:</b>     | 30 N $\pm$ 4 N                     |
| <b>Operating Travel:</b>    | 4.2 mm                             |
| <b>Tightening torque:</b>   | Max. 0.8 Nm                        |
| <b>Weight:</b>              | 0.02 kg                            |

## AMBIENT CONDITION

|                               |                                                                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IP Protection:</b>         | IP67 front side, according to EN IEC 60529/A1:2010-04, IP69K front side, according to EN IEC 60529/A1:2010-04, Panel surface roughness Ra1.6 |
| <b>IK Protection:</b>         | IK06                                                                                                                                         |
| <b>Operating temperature:</b> | - 25 °C ... + 55 °C                                                                                                                          |
| <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, 20 cycles, 3-axis (sinusoidal EN IEC 60068-2-6)                                           |
| <b>Climate resistance:</b>    | Damp heat, steady: 56 days, + 40 °C/93 % relative humidity, according to EN IEC 60068-2-78                                                   |

Dry heat: 96 hours, + 65 °C, as per EN IEC 60068-2-2  
Low temperature: 96 hours, – 25 °C (as per EN IEC 60068-2-1) ) UV test, 56 days  
(EN 60068-2-5:1999)

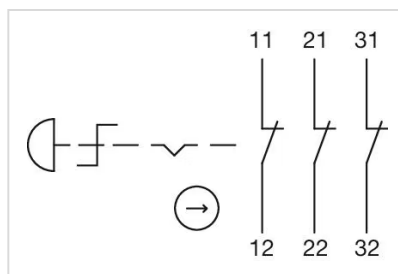
## CERTIFICATE

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| <b>Approbations:</b> | CB (EN 60947), UL NISD (cULus, UL EU) LISTED E-File-Nr.: E341760 |
| <b>Conformities:</b> | CE, UKCA                                                         |
| <b>REACH:</b>        | REACH compliant                                                  |
| <b>RoHS:</b>         | RoHS compliant                                                   |

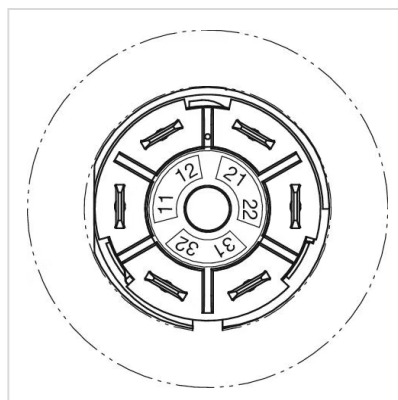
## OTHER

|                           |                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Short Description:</b> | Actuator, Ø 27 mm, mushroom-head, non illuminative, Red, Plastic, round, 3 NC, Maintained, Plug-in terminal, 2.8 x 0.5 mm, Twist to unlock                                                                                                                                                                                         |
| <b>Dimension:</b>         | Ø 27 mm                                                                                                                                                                                                                                                                                                                            |
| <b>Hints:</b>             | Application as per DIN EN ISO 13850 and EN 60204-1, Seal Part No. 61-9900, Anti-twist ring No. 51-910, Fixing nut No. 51-991, Plug-in terminals 2.8 mm x 0.5 mm are solderable without UL certificate, Front plate thickness 1 ... 4 mm with an anti-rotation ring, Front plate thickness 1 ... 6 mm without an anti-rotation ring |

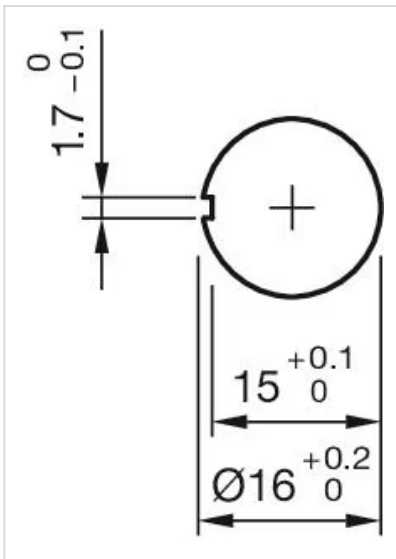
### Wiring diagrams:



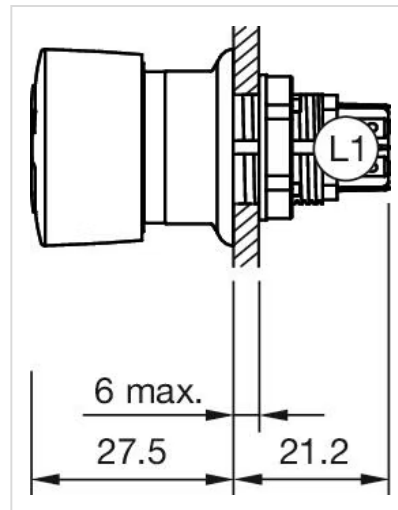
### Component layouts:



### Mounting cut-outs:



Dimension drawings:



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