

# Actuator

14-  
274.0252

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## 14-274.0252

### Actuator

#### FRONT

**Front form:** Round

#### MOUNTING

**Mounting type:** Panel mounting

#### OPERATING-/INDICATION PART

**Lens illumination:** Illuminated

#### ELECTRICAL CHARACTERISTICS

**Switching voltage and switching current:**

- 250 VAC, 5 A (ohmic)
- 250 VAC, 3 A (Soldering terminal)
- 250 VAC, 2 A (inductive,  $\cos(\phi) = 0.7$ )
- 220 VDC, 0.1 A (inductive, L:R = 30 ms)
- 110 VDC, 0.2 A (inductive, L:R = 30 ms)
- 60 VDC, 0.7 A (inductive, L:R = 30 ms)
- 24 VDC, 2 A (inductive, L:R = 30 ms)

**Contacts:** 4 NC / 4 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

**Protection class:** II

**Standards:** According to EN/IEC 61058-1

**Thermal current  $I_{th}$ :** The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values.  
3 A

## MECHANICAL CHARACTERISTIC

|                             |                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Terminal:</b>            | Soldering terminal                                                                                                   |
| <b>Contact material:</b>    | Gold                                                                                                                 |
| <b>Switching action:</b>    | Maintained                                                                                                           |
| <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>Mechanical lifetime:</b> | 1 Mil. cycles of operation                                                                                           |
| <b>Operating force:</b>     | 5 N ... 8 N, depending on the number of switching elements                                                           |
| <b>Operating Travel:</b>    | 3 mm                                                                                                                 |
| <b>Tightening torque:</b>   | Fixing nut max. 0.25 Nm                                                                                              |
| <b>Weight:</b>              | 0.019 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                                                  |
| <b>RoHS:</b>         | RoHS compliant                                                   |

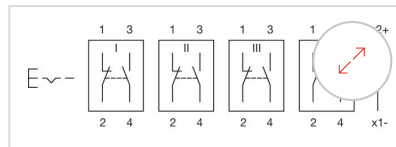
## OTHER

|                           |                                                                                                            |
|---------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Short Description:</b> | Actuator, Illuminated, Round, 4 NC / 4 NO, Maintained, Soldering terminal, IP67, according to DIN EN 60529 |
| <b>Housing colour:</b>    | Black                                                                                                      |

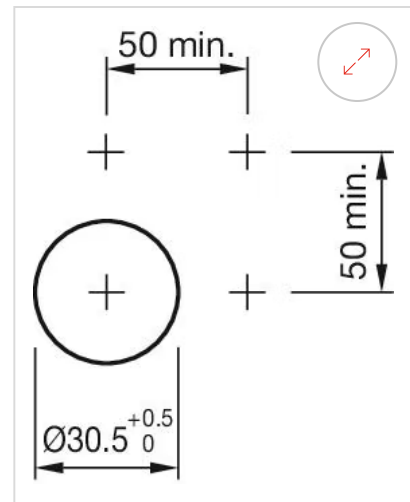
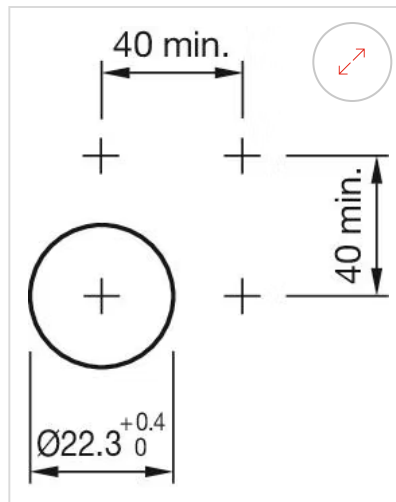
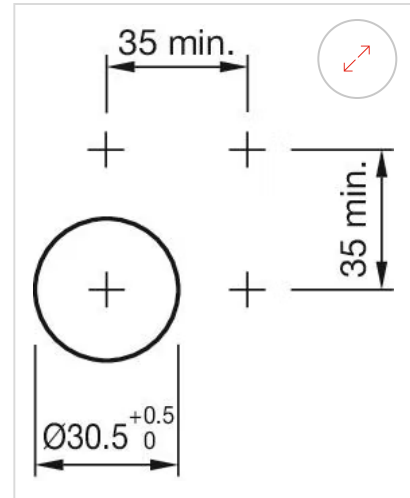
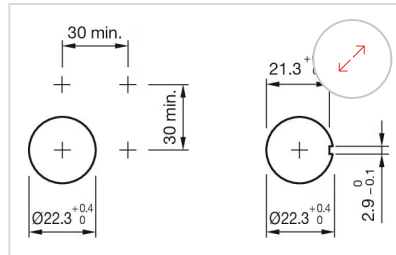
max. number of switching  
elements:

4

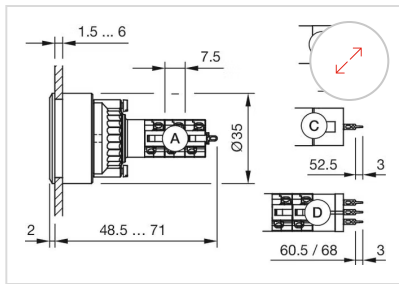
Wiring diagrams:



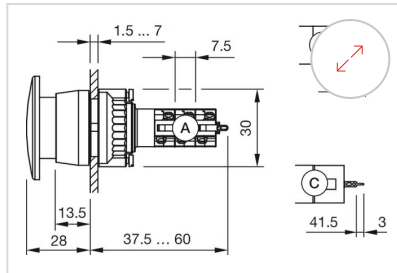
Mounting cut-outs:



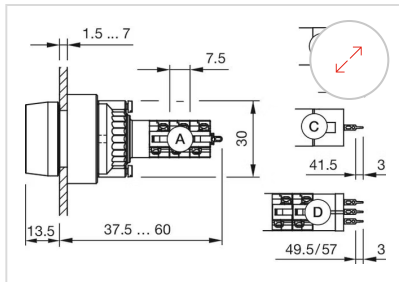
Dimension drawings:



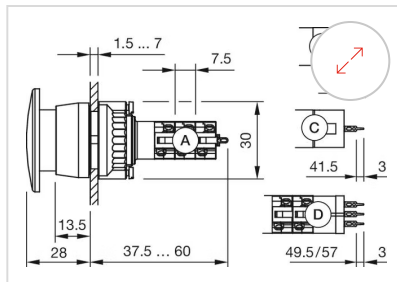
A = Solder terminal  
 B = Plug-in terminal 2.8 x 0.5 mm  
 C = Universal terminal 2.0 mm x 0.5 mm  
 Universal-Solder terminal



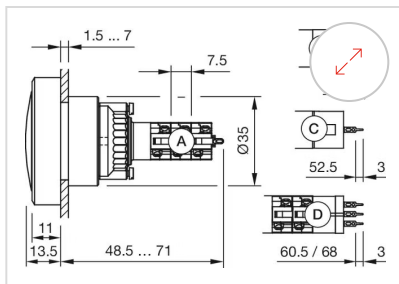
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A = Solder terminal  
 B = Plug-in terminal 2.8 x 0.5 mm  
 C = Universal terminal 2.0 mm x 0.5 mm  
 D = Universal-Solder terminal



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



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