

# Actuator

31-  
273.0252



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Your product:



31-273.0252  
Actuator

#### PRODUCT RANGE

**Product Status:** Not Recommended for new design

#### FRONT

**Front dimension:** Ø 18 mm  
**Front form:** Round  
**Front bezel colour:** Black  
**Front bezel material:** Plastic

#### MOUNTING

**Design:** Raised  
**Mounting cut-out:** Ø 16 mm  
**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,  $\cos(\phi) = 0.7$ )  
125 VAC, 3 A (inductive,  $\cos(\phi) = 0.7$ )  
220 VDC, 0.1 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:** 3 NC / 3 NO

**Rated Operational Voltage Ue:**

250 VAC/VDC

|                             |  |
|-----------------------------|--|
| <b>Switching rating:</b>    | 250 V @ 3 A  |
| <b>Electrical lifetime:</b> | 50 000 cycles of operation   |
| <b>Electric strength:</b>   | 2500 VAC, 50 Hz, 1 minute, as per IEC 60512-2-11 between all terminals and earth |
| <b>Protection class:</b>    | II   |
| <b>Standards:</b>           | According to EN/IEC 61058-1  |
| <b>Thermal current Ith:</b> | 3 A  |

## MECHANICAL CHARACTERISTICS

|                             |  |
|-----------------------------|--|
| <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 (contact opening width 2 mm x 0.5 mm), 1 normally closed and 1 normally open contact element. |
| <b>Mechanical lifetime:</b> | 1 Mil. cycles of operation (RCC/RPB)   |
| <b>Operating force:</b>     | 2 N ... 5,5 N, depending on the number of switching elements   |
| <b>Operating Travel:</b>    | ca. 3 mm   |
| <b>Tightening torque:</b>   | Fixing nut max. 0.5 Nm   |
| <b>Wire cross section:</b>  | Max. wire cross-section 1 wire with 1.5 mm<br>Max. wire cross-section of stranded cable 2 of 0.75 mm <sup>2</sup> or 1 x 1.0 mm <sup>2</sup>           |
| <b>Weight:</b>              | 0.008 kg   |

## AMBIENT CONDITION

|                               |   |
|-------------------------------|---|
| <b>IP Protection:</b>         | IP40 front side, IP67 with front protective cap   |
| <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>      | 15 g for 11 ms, as per IEC 60512-4-3, IEC 60068-2-27 (Single impacts, semi-sinusoidal)                  |
| <b>Vibration resistance:</b>  | 10 g at 10 Hz...2000 Hz, amplitude 1.5 mm (Sinusoidal), according to DIN EN 60512-4-4, DIN EN 60068-2-6 |
| <b>Climate resistance:</b>    | Standard condition according to IEC 60068-2-3<br>Changing condition according to IEC 60068-2-14         |

## CERTIFICATE

### Approbations:

CB (IEC 61058-1), 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, Ø 16 mm, Ø 18 mm, Illuminated, Round, Black, Plastic, 3 NC / 3 NO, Maintained, Soldering terminal

### Internal size:

Ø 15,8 mm

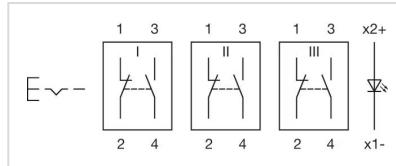
### Housing colour:

Black

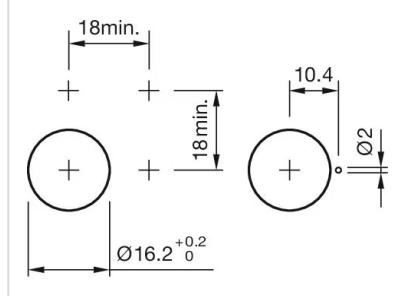
### max. number of switching elements:

3

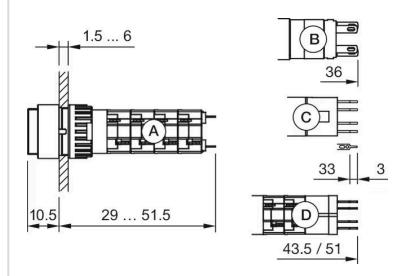
### Wiring diagrams:



### Mounting cut-outs:



### Dimension drawings:



A = Solder terminal

B = Plug-in terminal 2.8 mm x 0.5 mm

C = Universal terminal 2.0 mm x 0.5 mm

D = Universal-Solder terminal