

Actuator

31-
271.022

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Your product:



31-271.022 Actuator

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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: 1 NC / 1 NO

Rated Operational Voltage U_e :

250 VAC/VDC

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|--|--|
| Switching rating: | 250 V @ 5 A |
| Electrical lifetime: | 50 000 cycles of operation |
| Electric strength: | 2500 VAC, 50 Hz, 1 minute, as per IEC 60512-2-11 between all terminals and earth |
| Protection class: | II |
| Standards: | According to EN/IEC 61058-1 |
| Thermal current I_{th}: | 5 A |

MECHANICAL CHARACTERISTICS

| | |
|-----------------------------|--|
| Terminal: | Plug-in terminal, 2.8 x 0.5 mm |
| Contact material: | Gold |
| Switching action: | Maintained |
| Switching system: | Snap-action switching element |
| Switching system: | 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. |
| Mechanical lifetime: | 1 Mil. cycles of operation |
| Operating force: | 2 N ... 5,5 N, depending on the number of switching elements |
| Operating Travel: | ca. 3 mm |
| Tightening torque: | Fixing nut max. 0.5 Nm |
| Wire cross section: | Max. wire cross-section 1 wire with 1.5 mm Max. wire cross-section of stranded cable 2 of 0.75 mm ² or 1 x 1.0 mm ² |
| Weight: | 0.007 kg |

AMBIENT CONDITION

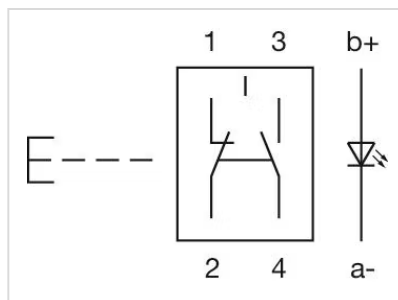
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|-------------------------------|---|
| IP Protection: | IP40 front side, IP67 with front protective cap |
| Operating temperature: | - 25 °C ... + 55 °C, mounted as a block, make sure the heat can escape freely |
| Storage temperature: | - 40 °C ... + 85 °C |
| Shock resistance: | 15 g for 11 ms, as per IEC 60512-4-3, IEC 60068-2-27 (Single impacts, semi-sinusoidal) |
| Vibration resistance: | 10 g at 10 Hz...2000 Hz, amplitude 1.5 mm (Sinusoidal), according to DIN EN 60512-4-4, DIN EN 60068-2-6 |
| Climate resistance: | Standard condition according to IEC 60068-2-3 Changing condition according to IEC 60068-2-14 |

CERTIFICATE

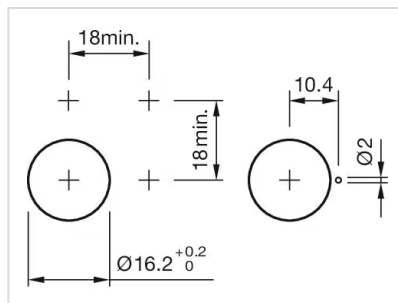
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|----------------------|---|
| Approbations: | CB (IEC 61058-1), CSA, DNV, ENEC (EN 61058-1), UL |
| Conformities: | CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD) |
| REACH: | REACH compliant |
| RoHS: | RoHS compliant |

OTHER

| | |
|---|---|
| Short Description: | Actuator, Ø 16 mm, Ø 18 mm, Illuminated, Round, Black, Plastic, 1 NC / 1 NO, Maintained, Plug-in terminal, 2.8 x 0.5 mm |
| Internal size: | Ø 15,8 mm |
| Housing colour: | Black |
| max. number of switching elements: | 1 |
| 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