

Actuator

31-
748.0292

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Your product:



31-748.0292

Actuator

FRONT

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

MOUNTING

Mounting cut-out:	Ø 16 mm
Design:	raised

OPERATING-/INDICATION PART

Lens illumination:	illuminative
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ELECTRICAL CHARACTERISTICS

Contacts:	1 NC / 1 NO
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)
Thermal current I _{th} :	5 A
Electrical lifetime:	50 000 cycles of operation
Protection class:	II
Rated Operational Voltage U _e :	250 VAC/VDC
Standards:	According to EN/IEC 61058-1

Electric strength: 2500 VAC, 50 Hz, 1 minute, as per IEC 60512-2-11 between all terminals and earth

MECHANICAL CHARACTERISTIC

Operating force: 2 N ... 5,5 N, depending on the number of switching elements

Contact material: Gold

Weight: 0.008 kg

Operating Travel: ca. 3 mm

Tightening torque: Fixing nut max. 0.5 Nm

Mechanical lifetime: 1 Mio. cycles of operation

Terminal: Universal soldering terminal

Wire cross section: Max. wire cross-section 1 wire with 1.5 mm
Max. wire cross-section of stranded cable 2 of 0.75 mm² or 1 x 1.0 mm²

Switching action: Maintained

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.

Switching system: Snap-action switching element

AMBIENT CONDITION

Climate resistance: Standard condition according to IEC 60068-2-3
Changing condition according to IEC 60068-2-14

Operating temperature: – 25 °C ... + 55 °C, mounted as a block, make sure the heat can escape freely

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

Shock resistance: 15 g for 11 ms, as per IEC 60512-4-3, IEC 60068-2-27 (Single impacts, semi-sinusoidal)

Storage temperature: – 40 °C ... + 85 °C

IP Protection: IP40 front side, IP67 with front protective cap

CERTIFICATE

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

OTHER

max. number of switching elements: 1

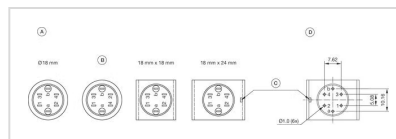
Short Description:

Actuator, Ø 16 mm, Ø 18 mm, illuminative, round, Black, Plastic, 1 NC / 1 NO, Maintained, Universal soldering terminal

Internal size: Ø 15,8 mm

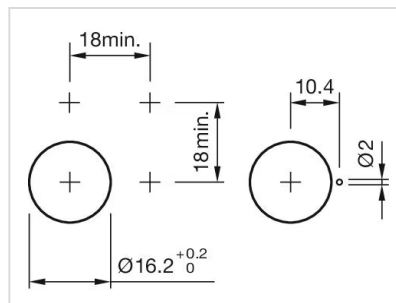
Housing colour: Black

Component layouts:

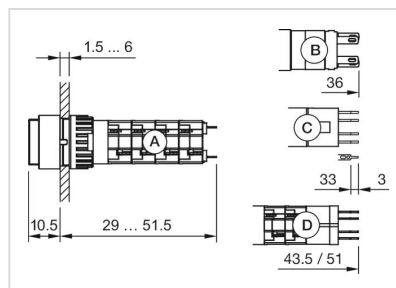


A = Terminals (rear side)
B = Diode block
C = Anti twist device only 18 mm x 24 mm
D = Drilling plan (component side)

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

Wiring diagrams:

