

Actuator

31-
710.0292

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Your product:



31-710.0292

Actuator

FRONT

Front bezel colour:	Black
Front form:	square
Front dimension:	18 mm x 18 mm
Front bezel material:	Plastic

MOUNTING

Mounting cut-out:	Ø 16 mm
Design:	raised

OPERATING-/INDICATION PART

Lens illumination:	illuminative
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ELECTRICAL CHARACTERISTICS

Protection class:	II
Standards:	According to EN/IEC 61058-1
Rated Operational Voltage U _e :	250 VAC/VDC
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)
Electrical lifetime:	50 000 cycles of operation
Contacts:	1 NC / 1 NO
Electric strength:	

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

Thermal current I_{th}: 5 A

MECHANICAL CHARACTERISTIC

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.

Operating Travel: ca. 3 mm

Switching system: Snap-action switching element

Mechanical lifetime: 2 Mio. cycles of operation

Switching action: Momentary

Contact material: Gold

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

Tightening torque: Fixing nut max. 0.5 Nm

Weight: 0.008 kg

Terminal: Universal soldering terminal

AMBIENT CONDITION

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)

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

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

CERTIFICATE

Approbations: CB (IEC 61058-1), CSA, DNV, ENEC (EN 61058-1), UL

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

OTHER

max. number of switching elements: 1

Housing colour:

Black

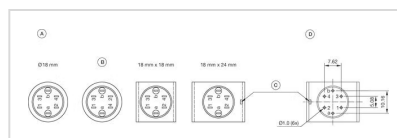
Short Description:

Actuator, Ø 16 mm, 18 mm x 18 mm, illuminative, square, Black, Plastic, 1 NC / 1 NO, Momentary, Universal soldering terminal

Internal size:

15,3 mm x 15,3 mm

Component layouts:



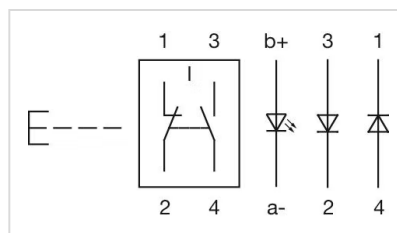
A = Terminals (rear side)

B = Diode block

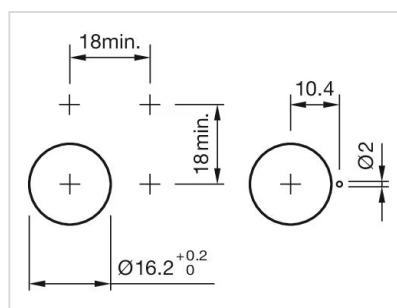
C = Anti twist device only 18 mm x 24 mm

D = Drilling plan (component side)

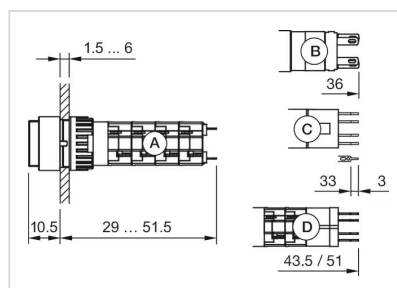
Wiring diagrams:



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