

Actuator

51-
452.036

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Your product:



51-452.036 Actuator

FRONT

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

MOUNTING

Design:	Raised
Mounting type:	Panel mounting

OPERATING-/INDICATION PART

Lens illumination:	Illuminated
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ELECTRICAL CHARACTERISTICS

Switching voltage and switching current:	100 mA at 42 VAC/VDC
Contacts:	2 NC
Switching rating:	42 V @ 0,1 A
Electric strength:	2500 VAC, 50 Hz, 1 min. between all terminals and earth, according to IEC 61058-1, part 15

MECHANICAL CHARACTERISTICS

Terminal:	Universal terminal, 2 x 0.5 mm
Contact material:	Gold
Switching action:	

Momentary

Switching system: Low-level element

Switching system: This low-level switching element was designed for switching low powers in electronic circuits. The mechanism assures reliable switching of loads ranging from a few $\mu\text{A}/\mu\text{V}$ up to 100 mA/ 42 VAC/DC.
Single-break momentary contact, as normally open or normally closed with 4 independent points of contact. 2 momentary contacts per switching element; combination of normally open and normally closed is possible.
Special features are the long life, extremely short rebound time and stable contact resistance.

Mechanical lifetime: 5 Mil. cycles of operation

Operating force: 1,8 ... 3,5 N

Operating Travel: 3 mm

Tightening torque: Fixing nut max. 0.5 Nm

Terminal details 1: The universal terminals permit these units to be mounted on printed circuit boards (PCB). These terminals can also be used as soldering or plug-in terminals.
For these terminals we can also supply a plug-in base which, when soldered on to the board, enables the switch to be plugged in.

Weight: 0.007 kg

AMBIENT CONDITION

IP front protection: IP65, according to DIN EN 60529

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

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

CERTIFICATE

REACH: REACH compliant

RoHS: RoHS compliant

OTHER

Short Description: Actuator, 18 mm x 18 mm, Illuminated, Square, Black, Plastic, 2 NC, Momentary, Universal terminal, 2 x 0.5 mm, IP65, according to DIN EN 60529

Internal size: 15,3 mm x 15,3 mm

Housing colour: Black

Wiring diagrams:

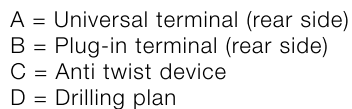


Figure 10 illustrates dimensioning for a hole and a hole with a hole. The left diagram shows a hole with diameter $\varnothing 16.2^{+0.2}_0$ and a hole with diameter $\varnothing 18^{+0.1}_0$. The right diagram shows a hole with diameter $\varnothing 16.2^{+0.2}_0$ and a hole with diameter $\varnothing 18^{+0.1}_0$.

Technical drawing of a 12-pin connector. The main view shows a side profile with dimensions: 1.5 ... 6 (top), 10.5 (bottom left), 28 ... 50.5 (bottom), and 36 (bottom right). The connector has a circular body with a grid of pins. A detail view (A) shows a cross-section of the pin grid. A detail view (B) shows a top view of the connector with a dimension of 32. A detail view (C) shows a side view of the connector with a dimension of 3. A detail view (D) shows a bottom view of the connector with dimensions 43.5 / 51.

- 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