

Your Expert Partner for Human Machine Interfaces

Actuator

31-451.036







https://farnell.eao.com/p/31-451.036

Your product:



31-451.036 Actuator

PRODUCT RANGE

Product Status:	Not Recommended for new design
FRONT	
Front dimension:	18 mm x 18 mm
Front form:	Square
Front bezel colour:	Black
Front bezel material:	Plastic
MOUNTING	

MOUNTING

Design:	Raised
Mounting cut-out:	Ø 16 mm
Mounting type:	Panel mounting

Lens illumination:

Illuminated

ELECTRICAL CHARACTERISTICS

Switching voltage and switching current:	100 mA at 42 VAC/VDC
Contacts:	2 NO
Switching rating:	42 V @ 0,1 A
Electric strength:	2500 VAC, 50 Hz, 1 minute, as per IEC 60512-2-11 between all terminals and earth

Protection class:

Standards:

According to EN/IEC 61058-1

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 $\mu A/\mu V$ 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 contactsper 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:	3 N 3.5 N	
Operating Travel:	ca. 3 mm	
Tightening torque:	Fixing nut max. 0.5 Nm	
Wire cross section:	Max. wire diameter 2 wires à 0.8 mm Max. wire cross-section of stranded cable 1 x 0.75 mm ²	
Weight:	0.007 kg	

AMBIENT CONDITION

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 Hz2000 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	

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

RoHS compliant

OTHER

Short Description:

Internal size:

Housing colour:

max. number of switching elements:

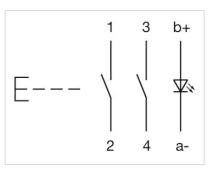
Wiring diagrams:

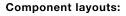
Actuator, Ø 16 mm, 18 mm x 18 mm, Illuminated, Square, Black, Plastic, 2 NO, Momentary, Universal terminal, 2 x 0.5 mm

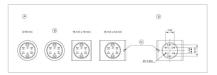
15,3 mm x 15,3 mm

Black

1







18 min.

Ø16.2^{+0.2}

10.4

43.5 / 51

02

18min.

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
- $B = Plug-in terminal 2.8 mm \times 0.5 mm$
- $C = Universal terminal 2.0 mm \times 0.5 mm$
- D = Universal-Solder terminal