

Actuator

51-451.036







51-451.036 Actuator

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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

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 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 $\mu A/\mu V$ 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: 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: 0.016 kg

AMBIENT CONDITION

IP front protection: IP65, according to DIN EN 60529

Operating temperature: - 25 °C, mounted as a block, make sure the heat can escape freely

Storage temperature: $-40 \,^{\circ}\text{C} \dots + 85 \,^{\circ}\text{C}$

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

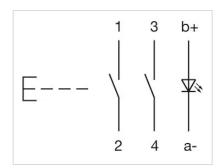
Short Description: Actuator, 18 mm x 18 mm, Illuminated, Square, Black, Plastic, 2 NO, Momentary,

Universal terminal, 2 x 0.5 mm, IP65, according to DIN EN 60529

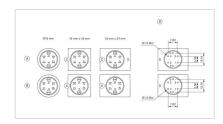
Internal size: 15,3 mm x 15,3 mm

Housing colour: Black

Wiring diagrams:



Component layouts:



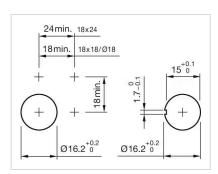
A = Universal terminal (rear side)

B = Plug-in terminal (rear side)

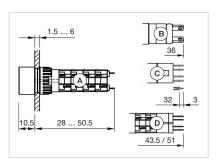
C = Anti twist device

D = Drilling plan

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