

# Actuator

14-

431.036

Distribution by DigiKey









## 14-431.036 Actuator

FRONT	
Front form:	Round
MOUNTING	
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:	3000 VAC, 50 Hz, 1 min. between all terminals and earth, according to EN/IEC $61058\text{-}1$
Protection class:	II
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 ... 4 N, depending on the number of switching elements

Operating Travel: 3 mm

**Tightening torque:** Fixing nut max. 0.25 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.

Wire cross section: Max. wire diameter 2 wires of 1 mm

Max. wire cross-section of stranded cable 2 x 0.75 mm<sup>2</sup>

**Weight:** 0.016 kg

#### **AMBIENT CONDITION**

**IP front protection:** IP67, 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: Max. 150 m / s<sup>2</sup>, pulse width 11 ms, 3-axis, (semi-sinusoidal as per EN IEC 60068-

2-27)

#### **CERTIFICATE**

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

**REACH:** REACH compliant

RoHS: RoHS compliant

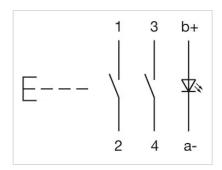
#### **OTHER**

**Short Description:** Actuator, Illuminated, Round, 2 NO, Momentary, Universal terminal, 2 x 0.5 mm,

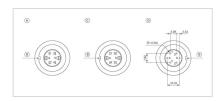
IP67, according to DIN EN 60529

Housing colour: Black

Wiring diagrams:



## Component layouts:

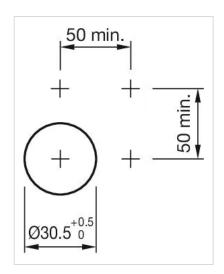


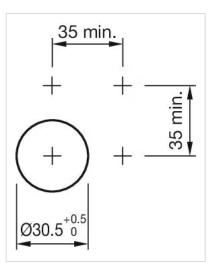
A = Terminals (rear side) B = Anti twist device

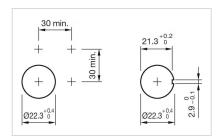
C = Diode block

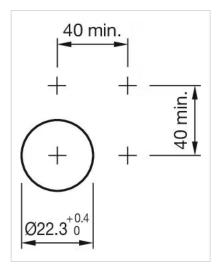
D = Drilling plan (component side)

### Mounting cut-outs:

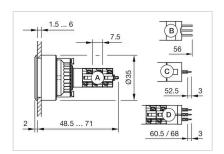








## Dimension drawings:

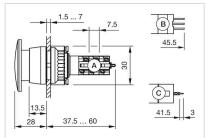


A = Solder terminal

 $B = Plug-in terminal 2.8 \times 0.5 mm$ 

C = Universal terminal 2.0 mm x 0.5 mm

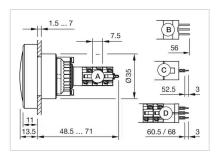
Universal-Solder terminal



A = Solder terminal

 $B = Plug-in terminal 2.8 \times 0.5 mm$ 

C = Universal terminal 2.0 mm x 0.5 mm

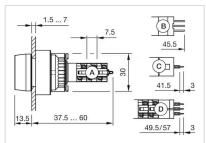


A = Solder terminal

 $B = Plug-in terminal 2.8 \times 0.5 mm$ 

C = Universal terminal 2.0 mm x 0.5 mm

D = Universal-Solder terminal

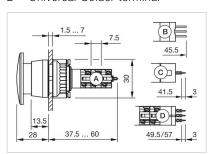


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