

# Actuator

51-712.0292 Distribution by DigiKey









## 51-712.0292 Actuator

### **FRONT**

Front bezel material: Plastic

Front dimension: 18 mm x 18 mm

Front bezel colour: Black

#### **MOUNTING**

**Design:** raised

## **OPERATING-/INDICATION PART**

Lens illumination: illuminative

## **ELECTRICAL CHARACTERISTICS**

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) 110 VDC, 0.2 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)

**Standards:** According to EN/IEC 61058-1

Protection class:

Contacts: 2 NC / 2 NO

Electric strength: 2500 VAC, 50 Hz, 1 min. between all terminals and earth, according to IEC 61058-

1, part 15

**Thermal current Ith:** 5 A, according to EN / IEC 60947-5-1

The maximum current in continuous operation and at ambient temperature not

exceeding the quoted maximum values.

**Rated Operational Voltage Ue:** 250 VAC/DC according to EN IEC 60947-1

**Electrical lifetime:** 50 000 cycles of operation

**MECHANICAL CHARATERISTIC** 

**Tightening torque:** Fixing nut max. 0.5 Nm

**Terminal:** Universal soldering terminal

Switching system: Self-cleaning, double-break snap action switching system, 1 normally closed and 1

normally open contact per element.

**Mechanical lifetime:** 2 Mio. cycles of operation

Switching action: Momentary

Contact material: Gold

Weight: 0.01 kg

Switching system: Snap-action switching element

Operating Travel: 3 mm

Wire cross section: Snap-action switching element with tinned soldering terminals at the sides

Max. wire diameter 2 wires à 1.2 mm

Max. wire cross-section of stranded cable 1 x 1 mm<sup>2</sup>

Operating force: 4 N ... 6 N

**AMBIENT CONDITION** 

Vibration resistance: 10 g at 10 Hz...1500 Hz, amplitude 0.75 mm (Sinusoidal), according to DIN EN

60512-4-4, DIN EN 60068-2-6

**Climate resistance:** Standard condition, as per DIN EN 60068-2-30

Changing condition, as per DIN EN 60068-2-14

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

**IP front protection:** IP65, according to DIN EN 60529

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

semi-sinusoidal)

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

CERTIFICATE

**Conformities:** CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 30 / EU (EMC), 2014 / 35 / EU (LVD)

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

**OTHER** 

Housing colour: Black

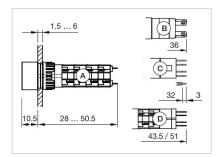
Internal size:

15,3 mm x 15,3 mm

**Short Description:** 

Actuator, 18 mm x 18 mm, illuminative, Black, Plastic, 2 NC / 2 NO, Momentary, Universal soldering terminal, IP65, according to DIN EN 60529

Dimension drawings:



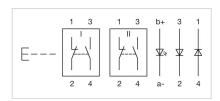
A = Solder terminal

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

Wiring diagrams:



Mounting cut-outs:

