

# Actuator

31-709.0292 Distribution by DigiKey









## 31-709.0292 Actuator

## **FRONT**

Front form: square

Front bezel material: Plastic

Front dimension: 18 mm x 18 mm

Front bezel colour: Black

#### **MOUNTING**

Mounting cut-out: Ø 16 mm

**Design:** raised

## **OPERATING-/INDICATION PART**

Lens illumination: illuminative

## **ELECTRICAL CHARACTERISTICS**

Thermal current Ith: 5 A

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

Protection class:

Rated Operational Voltage Ue: 250 VAC/VDC

Electric strength: 2500 VAC, 50 Hz, 1 minute, as per IEC 60512-2-11 between all terminals and

earth

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) 60 VDC, 0.7 A (inductive, L:R = 30 ms) 24 VDC, 2 A (inductive, L:R = 30 ms) **Electrical lifetime:** 50 000 cycles of operation

Contacts: 1 NC / 1 NO

### **MECHANICAL CHARATERISTIC**

**Weight:** 0.008 kg

Switching system: Snap-action switching element

**Operating force:** 2 N ... 5,5 N, depending on the number of switching elements

Operating Travel: ca. 3 mm

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

Contact material: Gold

**Terminal:** Universal soldering terminal

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

Switching action: Momentary

Switching system: Self-cleaning, double-break snap action switching system (contact opening width 2

mm x 0.5 mm), 1 normally closed and 1 normally open contact per element.

## **AMBIENT CONDITION**

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 IEC 60512-4-3, IEC 60068-2-27 (Single impacts, semi-

sinusoidal)

Climate resistance: Standard condition according to IEC 60068-2-3

Changing condition according to IEC 60068-2-14

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

**IP Protection:** IP40 front side, IP67 with front protective cap

Vibration resistance: 10 g at 10 Hz...2000 Hz, amplitude 1.5 mm (Sinusoidal), according to DIN EN

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

### **CERTIFICATE**

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

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

## **OTHER**

max. number of switching

elements:

**Short Description:** 

Actuator, Ø 16 mm, 18 mm x 18 mm, illuminative, square, Black, Plastic, 1 NC / 1 NO, Momentary, Universal soldering terminal

Housing colour:

Black

Internal size:

15,3 mm x 15,3 mm

Component layouts:



A = Terminals (rear side)

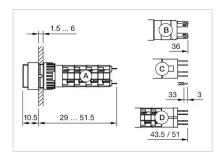
B = Diode block

C = Anti twist device only 18 mm x 24

mm

D = Drilling plan (component side)

**Dimension drawings:** 



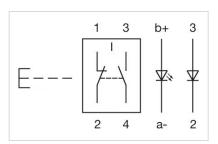
A = Solder terminal

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:

