

# Actuator

31-715.0292 Distribution by DigiKey









## 31-715.0292 Actuator

#### **FRONT**

Front dimension: 24 mm x 18 mm

Front bezel material: Plastic

Front form: rectangular

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

Contacts: 2 NC / 2 NO

**Switching voltage and switching** 250 VAC, 5 A (ohmic)

**current:** 250 VAC, 3 A (Soldering terminal)

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

Protection class:

Electric strength:

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

Rated Operational Voltage Ue: 250 VAC/VDC

#### **MECHANICAL CHARATERISTIC**

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.

Wire cross section: Max. wire cross-section 1 wire with 1.5 mm

Max. wire cross-section of stranded cable 2 of 0.75 mm<sup>2</sup> or 1 x 1.0 mm<sup>2</sup>

**Terminal:** Universal soldering terminal

**Mechanical lifetime:** 1 Mio. cycles of operation

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

Weight: 0.01 kg

Switching action: Maintained

**Operating Travel:** ca. 3 mm

Switching system: Snap-action switching element

Contact material: Gold

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

#### **AMBIENT CONDITION**

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

Changing condition according to IEC 60068-2-14

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

Operating temperature: - 25 °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)

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

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

### **CERTIFICATE**

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

**C**E, UKCA, 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD)

#### **OTHER**

Internal size: 21,5 mm x 15,3 mm

Housing colour: Black

max. number of switching

elements:

1

**Short Description:** 

Actuator, Ø 16 mm, 24 mm x 18 mm, illuminative, rectangular, Black, Plastic, 2 NC / 2 NO, Maintained, Universal soldering terminal

Component layouts:



A = Terminals (rear side)

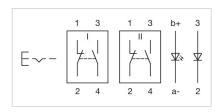
B = Diode block

C = Anti twist device only 18 mm x 24

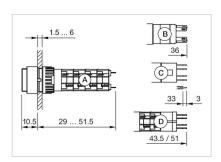
mm

D = Drilling plan (component side)

Wiring diagrams:



**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

Mounting cut-outs:

