

Actuator

31-710.0292 Distribution by DigiKey









31-710.0292 Actuator

FRONT

Front bezel colour: Black

Front form: square

Front dimension: 18 mm x 18 mm

Front bezel material: Plastic

MOUNTING

Mounting cut-out: Ø 16 mm

Design: raised

OPERATING-/INDICATION PART

Lens illumination: illuminative

ELECTRICAL CHARACTERISTICS

Protection class:

Standards: According to EN/IEC 61058-1

Rated Operational Voltage Ue: 250 VAC/VDC

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

current: 250 VAC, 3 A (Soldering terminal) 250 VAC, 2 A (inductive, cos(phi) = 0.7)

250 VAC, 2 A (inductive, cos(pni) = 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

Electric strength:

 $2500\ \text{VAC},\ 50\ \text{Hz},\ 1\ \text{minute},\ \text{as per IEC}\ 60512\text{-}2\text{-}11\ \text{between all terminals}$ and earth

Thermal current Ith: 5 A

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.

Operating Travel: ca. 3 mm

Switching system: Snap-action switching element

Mechanical lifetime: 2 Mio. cycles of operation

Switching action: Momentary

Contact material: Gold

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

Tightening torque: Fixing nut max. 0.5 Nm

Weight: 0.008 kg

Terminal: Universal soldering terminal

AMBIENT CONDITION

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

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

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

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

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

CERTIFICATE

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

Ce, UKCA, 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD)

OTHER

max. number of switching elements:

1

Housing colour:

Short Description: Actuator, Ø 16 mm, 18 mm x 18 mm, illuminative, square, Black, Plastic, 1 NC / 1

Black

NO, Momentary, Universal soldering terminal

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

Component layouts:



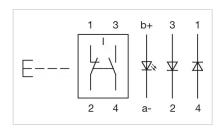
A = Terminals (rear side)

B = Diode block

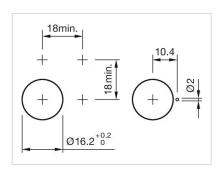
C = Anti twist device only 18 mm x 24

D = Drilling plan (component side)

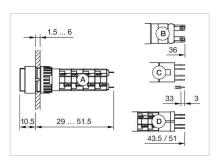
Wiring diagrams:



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