

Actuator

31-153.0252 Distribution by DigiKey









31-153.0252 Actuator

PRODUCT RANGE

Product Status: Not Recommended for new design

FRONT

Front dimension: 18 mm x 18 mm

Front form: Square

Front bezel colour: Black

Front bezel material: Plastic

MOUNTING

Design: Raised

Mounting cut-out: Ø 16 mm

Mounting type: Panel mounting

OPERATING-/INDICATION PART

Lens illumination: Illuminated

ELECTRICAL CHARACTERISTICS

Switching voltage and switching current:

250 VAC, 3 A (Soldering terminal)

250 VAC, 5 A (ohmic)

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)

Contacts: 3 NC / 3 NO

Rated Operational Voltage Ue:

250 VAC/VDC

Switching rating: 250 V @ 3 A

Electrical lifetime: 50 000 cycles of operation

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

earth

Protection class:

Standards: According to EN/IEC 61058-1

Thermal current Ith: 3 A

MECHANICAL CHARACTERISTICS

Terminal: Soldering terminal

Contact material: Gold

Switching action: Momentary

Switching system: Snap-action switching element

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.

Mechanical lifetime: 2 Mil. cycles of operation

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

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 mm²

Weight: 0.008 kg

AMBIENT CONDITION

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

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: 15 g for 11 ms, as per IEC 60512-4-3, IEC 60068-2-27 (Single impacts, semi-

sinusoidal)

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

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

Changing condition according to IEC 60068-2-14

CERTIFICATE

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

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

REACH: REACH compliant

RoHS: RoHS compliant

OTHER

Short Description: Actuator, Ø 16 mm, 18 mm x 18 mm, Illuminated, Square, Black, Plastic, 3 NC / 3

NO, Momentary, Soldering terminal

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

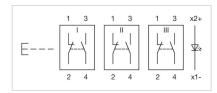
Housing colour: Black

max. number of switching

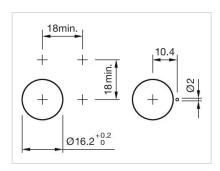
elements:

3

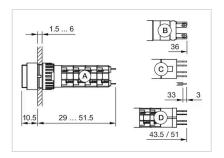
Wiring diagrams:



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