Your Expert Partner for Human Machine Interfaces



Actuator

14-509.02502 Distribution by DigiKey









14-509.02502 Actuator

FRONT

Front bezel colour: Nature

Front bezel material: Aluminium

OPERATING-/INDICATION PART

Lever material: plastic

Lever shape: short

Lever colour: Black

ELECTRICAL CHARACTERISTICS

Electrical lifetime: 50 000 cycles of operation

Protection class:

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) 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)

Rated Operational Voltage Ue: 250 VAC/DC according to EN IEC 61058-1

Thermal current Ith: The maximum current in continuous operation and at ambient temperature not

exceeding the quoted maximum values.

3 A

Electric strength: 3000 VAC, 50 Hz, 1 min. between all terminals and earth, according to EN/IEC

61058-1

Contacts: 4 NC / 4 NO

Standards: According to EN/IEC 61058-1

MECHANICAL CHARATERISTIC

Operating Travel: ca. 90°

Switching positions: 2 positions

Switching action: Rest - Maintained

Switching angle: 90° right

Weight: 0.03 kg

Contact material: Gold

Tightening torque: Fixing nut max. 0.25 Nm

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

normally open contact per element.

Mechanical lifetime: 1 Mio. cycles of operation

Switching system: Snap-action switching element

Terminal: Soldering terminal

Operating force: 3 N ... 6 N, depending on the number of switching elements

AMBIENT CONDITION

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

Shock resistance: Max. 150 m / s², pulse width 11 ms, 3-axis, (semi-sinusoidal as per EN IEC 60068-

2-27)

Climate resistance: Standard condition, as per DIN EN 60068-2-78

Standard cyclic, as per DIN IEC 60068-2-30

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

Vibration resistance: Max. 100 m / s² from 10 Hz ... 500 Hz, (sinusoidal EN IEC 60068-2-6)

IP front protection: IP67, according to DIN EN 60529

CERTIFICATE

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

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

OTHER

max. number of switching

elements:

4

Hints: The colour of anodised aluminium parts can vary due to technical production

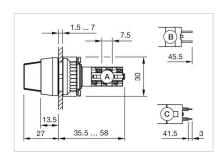
reasons

Short Description:

Actuator, non illuminative, Black, short, Nature, Aluminium, anodised, 4 NC / 4 NO, Rest - Maintained, Soldering terminal, IP67, according to DIN EN 60529

Wiring diagrams:

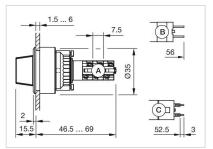
Dimension drawings:



A = Solder terminal

 $B = Plug-in terminal 2.8 \times 0.5 mm$

C = Universal terminal 2.0 mm x 0.5 mm

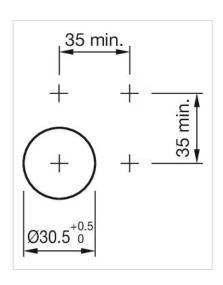


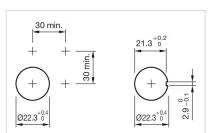
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 $B = Plug-in terminal 2.8 \times 0.5 mm$

C = Universal terminal 2.0 mm x 0.5 mm

Mounting cut-outs:





Switching positions:

