

Actuator

61-
6451.4257

Distribution by
Mouser



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Your product:



61-6451.4257

Actuator

FRONT

Front dimension:	Ø 27 mm
Front form:	round

MOUNTING

Mounting type:	Panel mounting
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OPERATING-/INDICATION PART

Lens colour:	Red
Lens material:	Plastic
Lens illumination:	illuminative
Lens shape:	mushroom-head
Illumination colour:	Red

ELECTRICAL CHARACTERISTICS

Contacts:	2 NC		
Contact resistance:	At 20 mV, 100 mA (IEC 60512-2-1) Insulation resistance 2 MΩ between the open contacts 7 MΩ towards the panel (DIN IEC 60512-3-1)		
Operating voltage:	6 - 32 V DC		
Switching voltage and switching current:	Alternating current usage category AC-15 according to EN IEC 60947-5-1 Voltage 50 VAC Current 0,2 A DC usage category DC-13 according to EN IEC 60947-5-1 Voltage 50 VDC Current 0,2 A		

Rated Operational Voltage Ue:	50 VAC / DC, according to EN / IEC 60947-5-1				
Rated impulse withstand voltage Uimp:	0.5 kV, according to EN / IEC 60947-1				
Rated insulation voltage Ui:	250 VAC/DC according to EN IEC 60947-1				
Rated short-circuit current caused:	1 000 A, type of short-circuit device 2 A gG (EN 60947-5-1)				
Recommended minimum operational data:	<table> <tr> <td>Voltage</td><td>1 VAC/DC</td></tr> <tr> <td>Current</td><td>1 mA</td></tr> </table>	Voltage	1 VAC/DC	Current	1 mA
Voltage	1 VAC/DC				
Current	1 mA				
Electrical lifetime:	≥20 000 cycles of operation				
Electric strength:	500 VAC, 50 Hz, 1 minute according to DIN IEC 60512-2				
Overvoltage category:	II, according to EN / IEC 61058-1				
Pollution degree:	3, according to EN IEC 60947-1				
Protection class:	II, according to EN / IEC 60947-5				
Standards:	According to EN 60947-5-1, EN 60947-5-5, DIN EN ISO 13850, EN IEC 60204				
Thermal current Ith:	0.5 A (EN IEC 60947-5-1 / max. current in continuous operation at max. + 55 degrees C)				

MECHANICAL CHARACTERISTIC

Terminal:	Plug-in terminal, 2.8 x 0.5 mm
Switching action:	Maintained
Release type:	Twist to unlock
Mechanical lifetime:	≥20 000 cycles of operation
Operating force:	30 N ±4 N
Operating Travel:	4.2 mm
Tightening torque:	Max. 0.8 Nm
Weight:	0.02 kg

AMBIENT CONDITION

IP Protection:	IP67 front side, according to EN IEC 60529/A1:2010-04, IP69K front side, according to EN IEC 60529/A1:2010-04, Panel surface roughness Ra1.6
IK Protection:	IK06
Operating temperature:	– 25 °C ... + 55 °C
Storage temperature:	– 40 °C ... + 85 °C
Shock resistance:	Max. 150 m / s ² , pulse width 11 ms, 3-axis, (semi-sinusoidal as per EN IEC 60068-2-27)

Vibration resistance:	Max. 100 m / s ² from 10 Hz ... 500 Hz, 20 cycles, 3-axis (sinusoidal EN IEC 60068-2-6)
Climate resistance:	Damp heat, steady: 56 days, + 40 °C/93 % relative humidity, according to EN IEC 60068-2-78 Dry heat: 96 hours, + 65 °C, as per EN IEC 60068-2-2 Low temperature: 96 hours, – 25 °C (as per EN IEC 60068-2-1)) UV test, 56 days (EN 60068-2-5:1999)

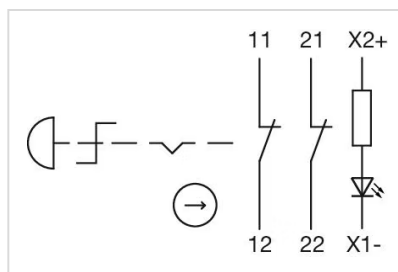
CERTIFICATE

Approbations:	CB (EN 60947), UL NISD (cULus, UL EU) LISTED E-File-Nr.: E341760
Conformities:	CE, UKCA
REACH:	REACH compliant
RoHS:	RoHS compliant

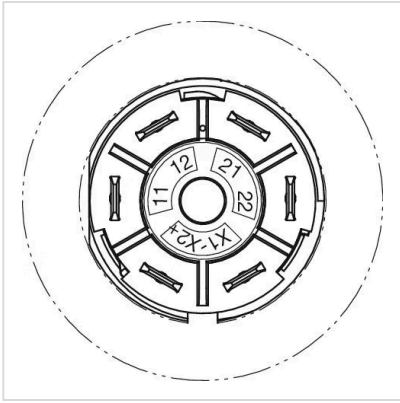
OTHER

Short Description:	Actuator, Ø 27 mm, mushroom-head, illuminative, Red, Plastic, round, 2 NC, Maintained, Plug-in terminal, 2.8 x 0.5 mm, Twist to unlock, Red
Kind of illumination:	LED with polarity reversal protection
Dimension:	Ø 27 mm
Hints:	Application as per DIN EN ISO 13850 and EN 60204-1, Seal Part No. 61-9900, Anti-twist ring No. 51-910, Fixing nut No. 51-991, Plug-in terminals 2.8 mm x 0.5 mm are solderable without UL certificate, Front plate thickness 1 ... 4 mm with an anti-rotation ring, Front plate thickness 1 ... 6 mm without an anti-rotation ring

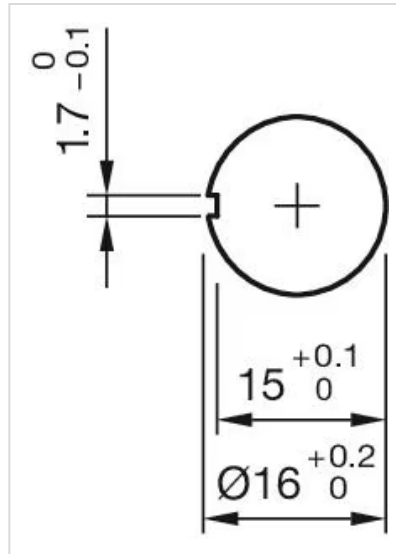
Wiring diagrams:



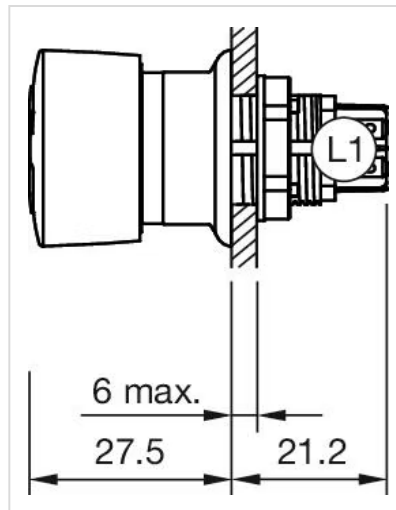
Component layouts:



Mounting cut-outs:



Dimension drawings:



Mouser Electronics

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