

Actuator

31-
281.0252



<https://eao.com/p/31-281.0252>

Your product:



31-281.0252

Actuator

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:	illuminative
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ELECTRICAL CHARACTERISTICS

Contacts:	1 NC / 1 NO
Switching voltage and switching current:	250 VAC, 5 A (ohmic) 250 VAC, 3 A (Soldering terminal) 250 VAC, 2 A (inductive, $\cos(\phi) = 0.7$) 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)
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:	II
Standards:	According to EN/IEC 61058-1
Thermal current I_{th}:	3 A

MECHANICAL CHARACTERISTIC

Terminal:	Soldering terminal
Contact material:	Gold
Switching action:	Maintained
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:	1 Mio. 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 mm ²
Weight:	0.006 kg

AMBIENT CONDITION

IP Protection:	IP40 front side, IP67 with front protective cap
Operating temperature:	– 25 °C ... + 55 °C, mounted as a block, make sure the heat can escape freely
Storage temperature:	– 40 °C ... + 85 °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

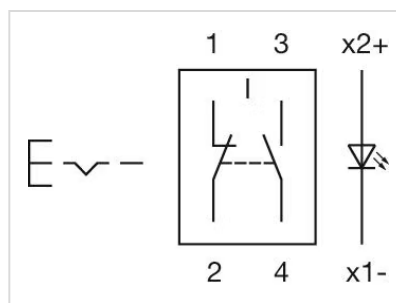
Short Description: Actuator, Ø 16 mm, 18 mm x 18 mm, illuminative, square, Black, Plastic, 1 NC / 1 NO, Maintained, Soldering terminal

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

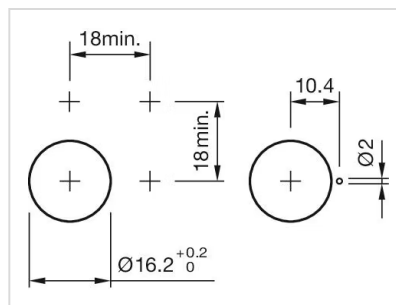
Housing colour: Black

max. number of switching elements: 1

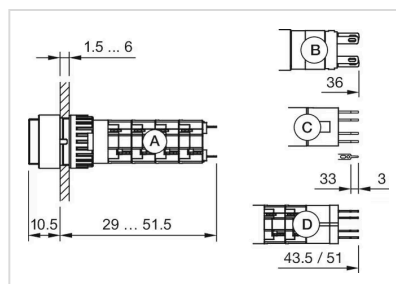
Wiring diagrams:



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

Where to Buy

Distributor		Quantity in Stock		
	Distrelec	118 in stock	Buy	
	Farnell element14 UK	77 in stock	Buy	
	element14 Singapore	65 in stock	Buy	
	RS UK	22 in stock	Buy	
	Mouser Electronics	5 in stock	Buy	

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