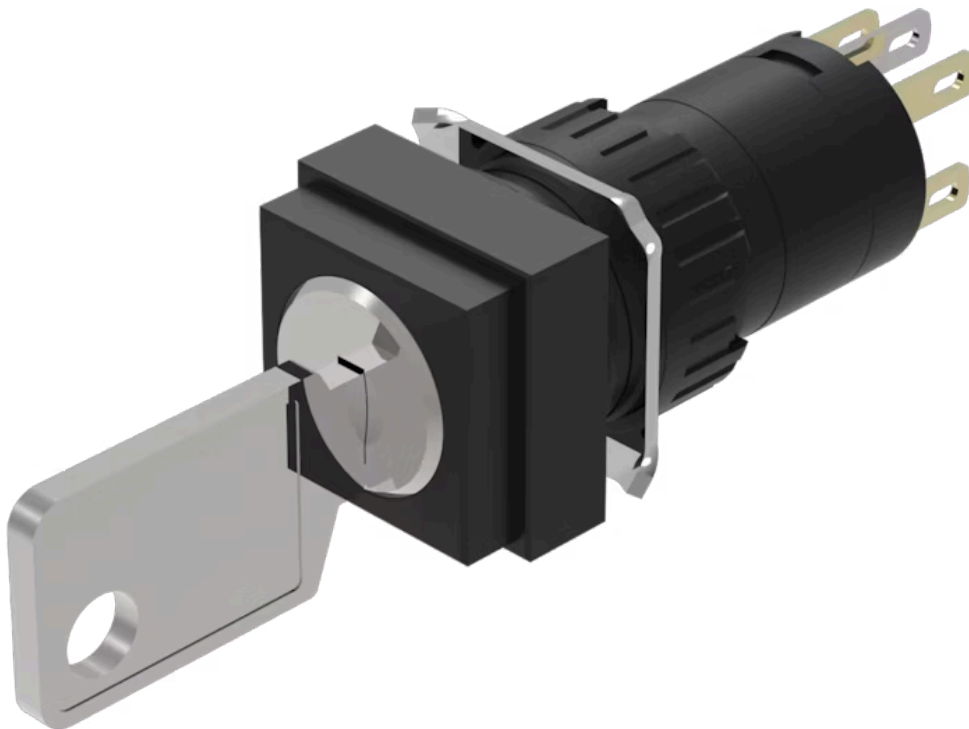


Actuator

51-
255.022D



<https://eao.com/p/51-255.022D>

Your product:



51-255.022D Actuator

FRONT

Front dimension: 18 mm x 18 mm

Front form: square

MOUNTING

Design: raised

Mounting type: Panel mounting

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)
- 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 U_e : 250 VAC/DC according to EN IEC 60947-1

Switching rating: 250 V @ 5 A

Electric strength: 2500 VAC, 50 Hz, 1 min. between all terminals and earth, according to IEC 61058-1, part 15

Protection class: II

Standards: According to EN/IEC 61058-1

Thermal current I_{th} : 5 A, according to EN / IEC 60947-5-1
The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values.

MECHANICAL CHARACTERISTIC

Terminal:	Plug-in terminal, 2.8 x 0.5 mm
Contact material:	Gold
Switching action:	Rest (a) - Maintained
Switching system:	Snap-action switching element
Switching system:	Self-cleaning, double-break snap action switching system, 1 normally closed and 1 normally open contact per element.
Switching positions:	2 positions
Switching angle:	90° right
Mechanical lifetime:	50 000 cycles of operation
Operating force:	1,8 ... 6 N, depending on the number of switching elements
Tightening torque:	Fixing nut max. 0.5 Nm
Wire cross section:	Snap-action switching element with axial soldering terminals, which can also be used as plug-in terminals 2.8 x 0.5mm Max. wire diameter 2 wires of 1 mm Max. wire cross-section of stranded cable 2 of 0.75 mm ² or 1 x 1.0 mm ²
Weight:	0.026 kg

AMBIENT CONDITION

IP front protection:	IP65, according to DIN EN 60529
Operating temperature:	– 25 °C ... + 55 °C
Storage temperature:	– 40 °C ... + 85 °C
Shock resistance:	15 g for 11 ms, as per DIN / EN 60512-4-3, DIN / EN 60068-2-27 (Single impacts, semi-sinusoidal)
Vibration resistance:	10 g at 10 Hz...1500 Hz, amplitude 0.75 mm (Sinusoidal), according to DIN EN 60512-4-4, DIN EN 60068-2-6
Climate resistance:	Standard condition, as per DIN EN 60068-2-30 Changing condition, as per DIN EN 60068-2-14

CERTIFICATE

Approbations:	CB (IEC 61058-1), CQC, CSA, DNV, ENEC (EN 61058-1), UL
Conformities:	CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 30 / EU (EMC), 2014 / 35 / EU (LVD)
REACH:	REACH compliant
RoHS:	RoHS compliant

OTHER

Short Description:

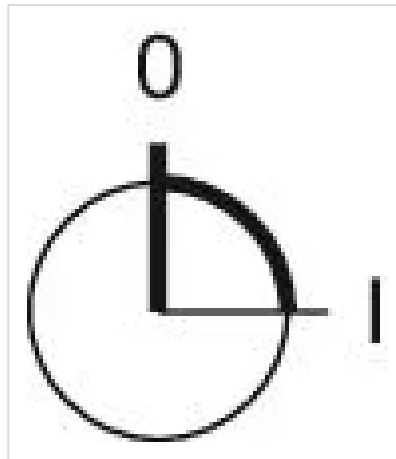
Actuator, 18 mm x 18 mm, square, 1 NC / 1 NO, Rest (a) - Maintained, Plug-in terminal, 2.8 x 0.5 mm, IP65, according to DIN EN 60529

Housing colour: Black

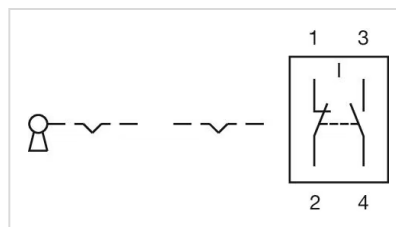
Hints: Standard lock: DOM 311

max. number of switching elements: 1

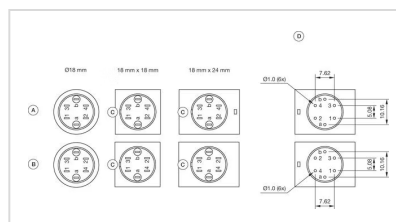
Switching positions:



Wiring diagrams:



Component layouts:

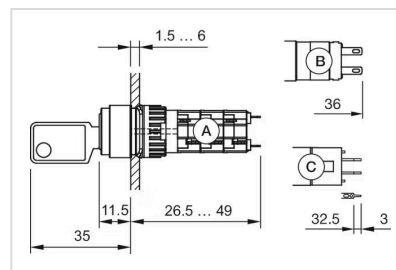


A = Universal terminal (rear side)
B = Plug-in terminal (rear side)
C = Anti twist device
D = Drilling plan

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

Where to Buy

	Distributor	Quantity in Stock	
	RS Americas	132 in stock	Buy 
	RS UK	83 in stock	Buy 
	Sager	71 in stock	Buy 
	Mouser Electronics	19 in stock	Buy 
	Newark Electronics	6 in stock	Buy 

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