

Actuator

51-
135.022D

Distribution by
Mouser



<https://mouser.eao.com/p/51-135.022D>

Your product:



51-135.022D Actuator

FRONT

Front dimension: Ø 18 mm

Front form: Round

MOUNTING

Design: Raised

Mounting type: Panel mounting

ELECTRICAL CHARACTERISTICS

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)

Contacts: 1 NC / 1 NO

Rated Operational Voltage U_e : 250 VAC/DC according to EN IEC 60947-1

Switching rating: 250 V @ 5 A

Electrical lifetime: 50 000 cycles of operation

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 CHARACTERISTICS

Terminal:	Plug-in terminal, 2.8 x 0.5 mm
Contact material:	Gold
Switching action:	Rest (a) - Maintained (a)
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
Weight:	0.016 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, Ø 18 mm, Round, 1 NC / 1 NO, Rest (a) - Maintained (a), Plug-in terminal, 2.8 x 0.5 mm, IP65, according to DIN EN 60529
---------------------------	---

Black

Standard lock: DOM 311

Figure 1 illustrates the dimensions of the test specimens. The figure is organized into three columns corresponding to different specimen sizes: Ø18 mm, 18 mm x 18 mm, and 18 mm x 24 mm. Each column contains a top view (labeled A) and a side view (labeled B).

- Ø18 mm:** The top view (A) shows a circular specimen with a central hole. The outer diameter is 18 mm, the hole diameter is 6 mm, and the hole depth is 2 mm. The side view (B) shows the specimen's thickness is 1.5 mm.
- 18 mm x 18 mm:** The top view (A) shows a square specimen with a central hole. The outer dimensions are 18 mm x 18 mm, the hole diameter is 6 mm, and the hole depth is 2 mm. The side view (B) shows the specimen's thickness is 1.5 mm.
- 18 mm x 24 mm:** The top view (A) shows a rectangular specimen with a central hole. The outer dimensions are 18 mm x 24 mm, the hole diameter is 6 mm, and the hole depth is 2 mm. The side view (B) shows the specimen's thickness is 1.5 mm.

The dimensions are labeled as follows:

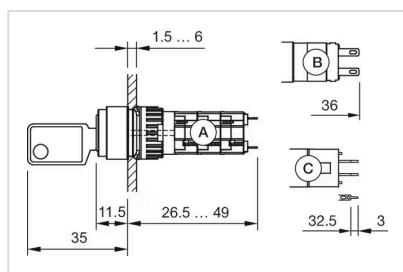
- Top View (A):**
 - D : Outer diameter or width.
 - d : Inner diameter or width of the hole.
 - D_1 : Outer diameter or width of the specimen.
 - d_1 : Inner diameter or width of the hole.
- Side View (B):**
 - t : Thickness of the specimen.
 - D_1 : Outer diameter or width of the specimen.
 - d_1 : Inner diameter or width of the hole.

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

Technical drawing of a mechanical part with dimensions and tolerances:

- Top horizontal dimension: 24 min. (18x24)
- Second horizontal dimension: 18 min. (18x18/Ø18)
- Left vertical dimension: 1.7 $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$
- Right vertical dimension: 18 min.
- Bottom horizontal dimension: 15 $\begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$
- Bottom horizontal dimension: Ø16.2 $\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$

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