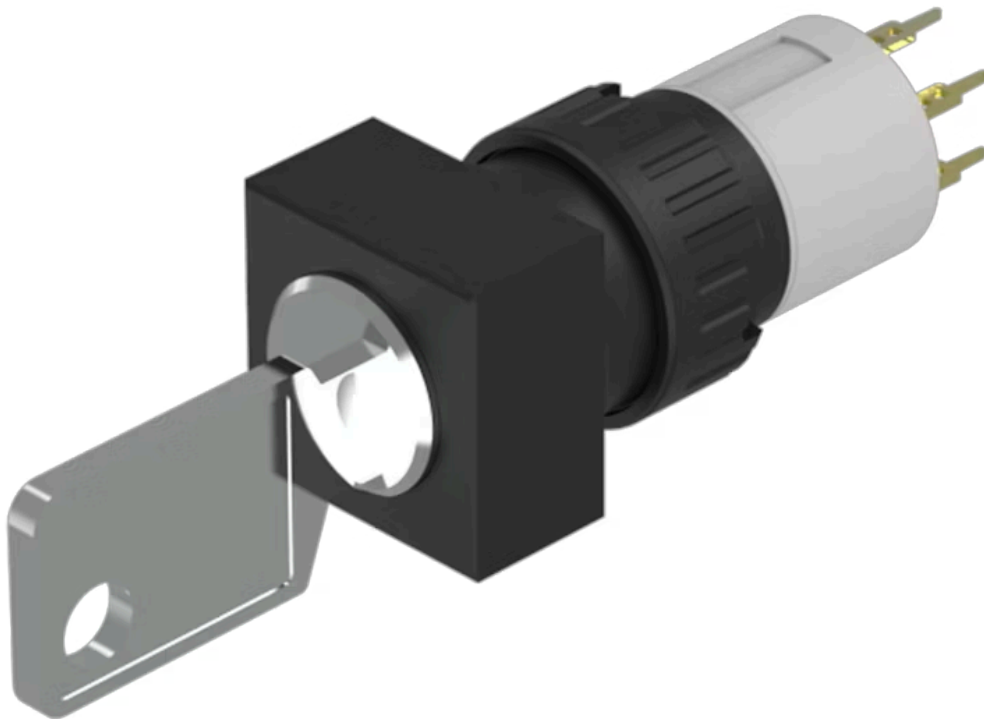


# Actuator

51-  
445.036DF

Distribution by  
Farnell



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Your product:

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## 51-445.036DF Actuator

### FRONT

<b>Front dimension:</b>	18 mm x 18 mm
<b>Front form:</b>	Square

### MOUNTING

<b>Design:</b>	Flush
<b>Mounting cut-out:</b>	21 mm x 21 mm
<b>Mounting type:</b>	Panel mounting

### ELECTRICAL CHARACTERISTICS

<b>Switching voltage and switching current:</b>	100 mA at 42 VAC/VDC
<b>Contacts:</b>	1 NC / 1 NO
<b>Switching rating:</b>	42 V @ 0,1 A
<b>Electric strength:</b>	2500 VAC, 50 Hz, 1 min. between all terminals and earth, according to IEC 61058-1, part 15
<b>Electrostatic discharge (ESD):</b>	≤ 15 kV

### MECHANICAL CHARACTERISTICS

<b>Terminal:</b>	Universal terminal, 2 x 0.5 mm
<b>Contact material:</b>	Gold
<b>Switching action:</b>	Rest (a) - Maintained
<b>Switching system:</b>	Low-level element
<b>Switching system:</b>	This low-level switching element was designed for switching low powers in electronic circuits. The mechanism assures reliable switching of loads ranging from a few $\mu\text{A}/\mu\text{V}$ up to 100 mA/ 42 VAC/DC.

Single-break momentary contact, as normally open or normally closed with 4 independent points of contact. 2 momentary contacts per switching element; combination of normally open and normally closed is possible. Special features are the long life, extremely short rebound time and stable contact resistance.

<b>Switching positions:</b>	2 positions
<b>Switching angle:</b>	90° right
<b>Mechanical lifetime:</b>	50 000 cycles of operation
<b>Operating force:</b>	1,8 ... 3,5 N
<b>Tightening torque:</b>	Fixing nut max. 0.5 Nm
<b>Terminal details 1:</b>	The universal terminals permit these units to be mounted on printed circuit boards (PCB). These terminals can also be used as soldering or plug-in terminals. For these terminals we can also supply a plug-in base which, when soldered on to the board, enables the switch to be plugged in.
<b>Weight:</b>	0.018 kg

#### **AMBIENT CONDITION**

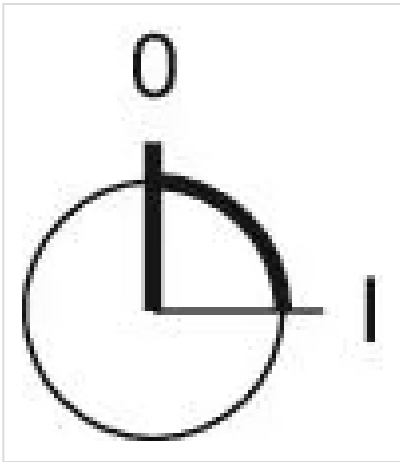
<b>IP front protection:</b>	IP65, according to DIN EN 60529
<b>Operating temperature:</b>	- 25 °C ... + 55 °C
<b>Storage temperature:</b>	- 40 °C ... + 85 °C
<b>Shock resistance:</b>	15 g for 11 ms, as per DIN / EN 60512-4-3, DIN / EN 60068-2-27 (Single impacts, semi-sinusoidal)

#### **CERTIFICATE**

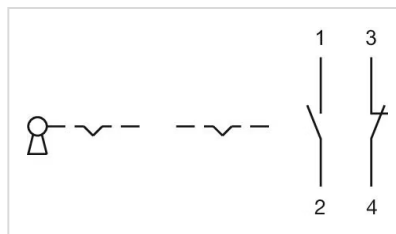
<b>REACH:</b>	REACH compliant
<b>RoHS:</b>	RoHS compliant

#### **OTHER**

<b>Short Description:</b>	Actuator, 21 mm x 21 mm, 18 mm x 18 mm, Square, 1 NC / 1 NO, Rest (a) - Maintained, Universal terminal, 2 x 0.5 mm, IP65, according to DIN EN 60529
<b>Housing colour:</b>	Black
<b>Hints:</b>	Standard lock: DOM 311
<b>Switching positions:</b>	



**Wiring diagrams:**

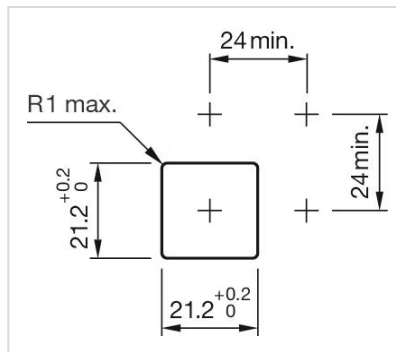


**Component layouts:**



- 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 = Solder terminal 2.8 mm x 0.5 mm

C = Universal terminal 2.0 mm x 0.5 mm