

# Actuator

14-  
412.036K

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Mouser



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## 14-412.036K Actuator

### FRONT

Front form:	Round
Front bezel colour:	Nature
Front bezel material:	Aluminium

### MOUNTING

Mounting type:	Panel mounting
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### ELECTRICAL CHARACTERISTICS

Switching voltage and switching current:	100 mA at 42 VAC/VDC
Contacts:	1 NC / 1 NO
Switching rating:	42 V @ 0,1 A
Electric strength:	3000 VAC, 50 Hz, 1 min. between all terminals and earth, according to EN/IEC 61058-1
Protection class:	II

### MECHANICAL CHARACTERISTIC

Terminal:	Universal terminal, 2 x 0.5 mm
Contact material:	Gold
Switching action:	Rest (a) - Maintained (a)
Switching system:	Low-level element
Switching system:	<p>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 <math>\mu\text{A}/\mu\text{V}</math> up to 100 mA/ 42 VAC/DC.</p> <p>Single-break momentary contact, as normally open or normally closed with 4 independent points of contact. 2 momentary contacts per switching element;</p>

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>	1 Mil. cycles of operation
<b>Operating force:</b>	3 N ... 4 N, depending on the number of switching elements
<b>Tightening torque:</b>	Fixing nut max. 0.25 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>Wire cross section:</b>	Max. wire diameter 2 wires of 1 mm Max. wire cross-section of stranded cable 2 x 0.75 mm <sup>2</sup>
<b>Weight:</b>	0.03 kg

## AMBIENT CONDITION

<b>IP front protection:</b>	IP65, according to DIN EN 60529
<b>Operating temperature:</b>	– 25 °C ... + 55 °C, mounted as a block, make sure the heat can escape freely
<b>Storage temperature:</b>	– 40 °C ... + 85 °C
<b>Shock resistance:</b>	Max. 150 m / s <sup>2</sup> , pulse width 11 ms, 3-axis, (semi-sinusoidal as per EN IEC 60068-2-27)

## CERTIFICATE

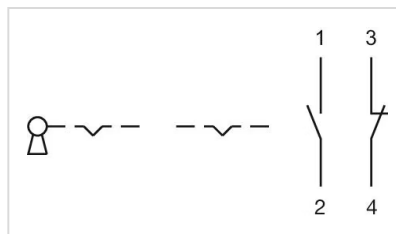
<b>Conformities:</b>	2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD)
<b>REACH:</b>	REACH compliant
<b>RoHS:</b>	RoHS compliant

## OTHER

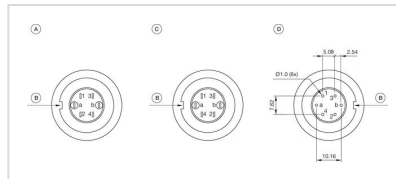
<b>Short Description:</b>	Actuator, Round, Nature, Aluminium, anodised, 1 NC / 1 NO, Rest (a) - Maintained (a), Universal terminal, 2 x 0.5 mm, IP65, according to DIN EN 60529
<b>Housing colour:</b>	Black
<b>Hints:</b>	Lock numbers 1001, lock type KABA
<b>Switching positions:</b>	



### Wiring diagrams:

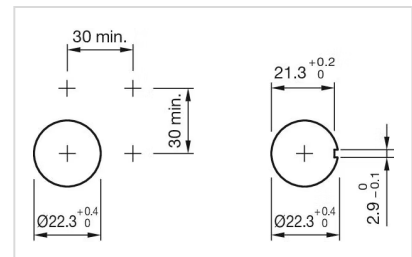
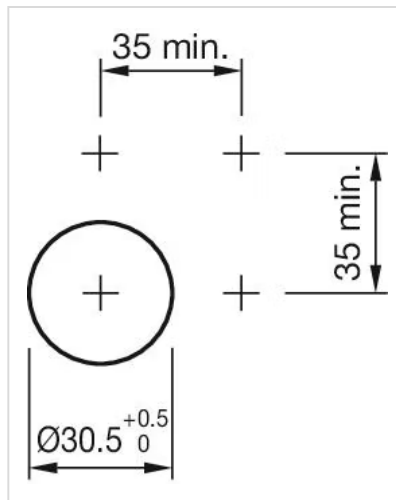


### Component layouts:

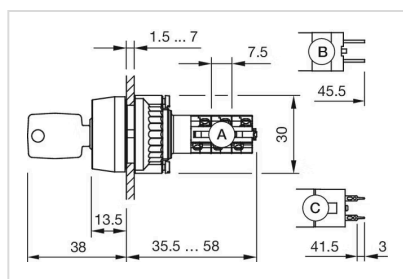


A = Terminals (rear side)  
 B = Anti twist device  
 C = Diode block  
 D = Drilling plan (component side)

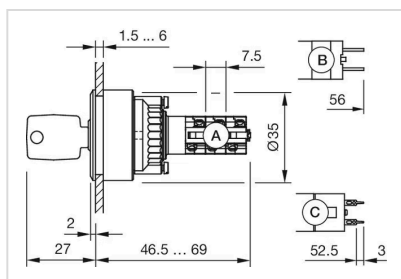
### Mounting cut-outs:



### 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



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