

# Actuator

14-  
412.036K



<https://www.eao.com/component/14-412.036K/en/...>

Your product:

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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 |
|----------------|----------------|

### 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 CHARACTERISTICS

|                   |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.<br>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<br>Max. wire cross-section of stranded cable 2 x 0.75 mm <sup>2</sup>                                                                                                                                                                                          |
| <b>Weight:</b>              | 0.03 kg                                                                                                                                                                                                                                                                                           |

## AMBIENT CONDITION

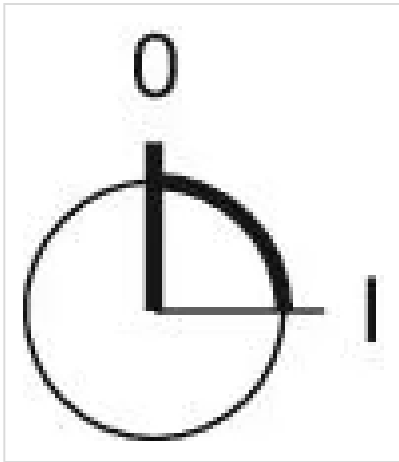
|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>IP front protection:</b>   | 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

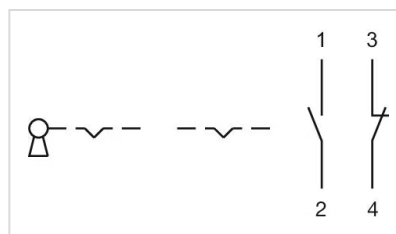
|                      |                                             |
|----------------------|---------------------------------------------|
| <b>Conformities:</b> | 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD) |
| <b>REACH:</b>        | REACH compliant                             |
| <b>RoHS:</b>  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

## OTHER

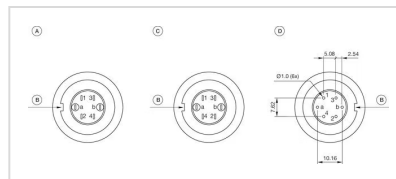
|                             |                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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> |                                                                                                                                                       |



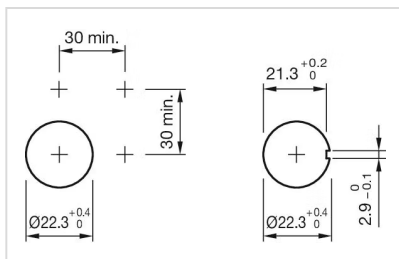
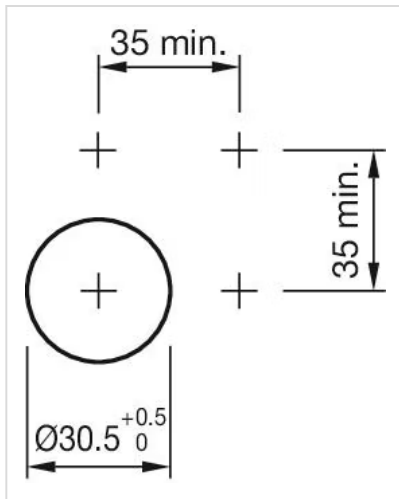
**Wiring diagrams:**



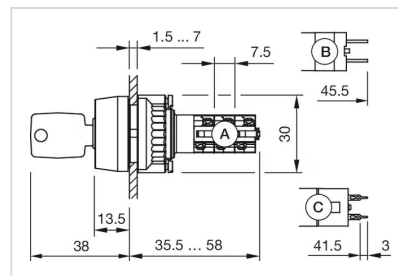
**Component layouts:**



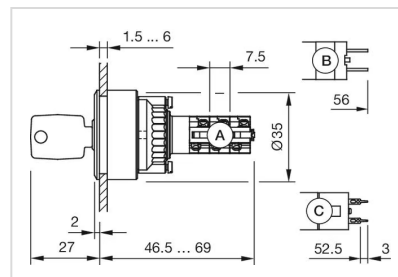
A = Terminals (rear side)  
B = Anti twist device  
C = Diode block  
D = Drilling plan (component side)



#### 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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