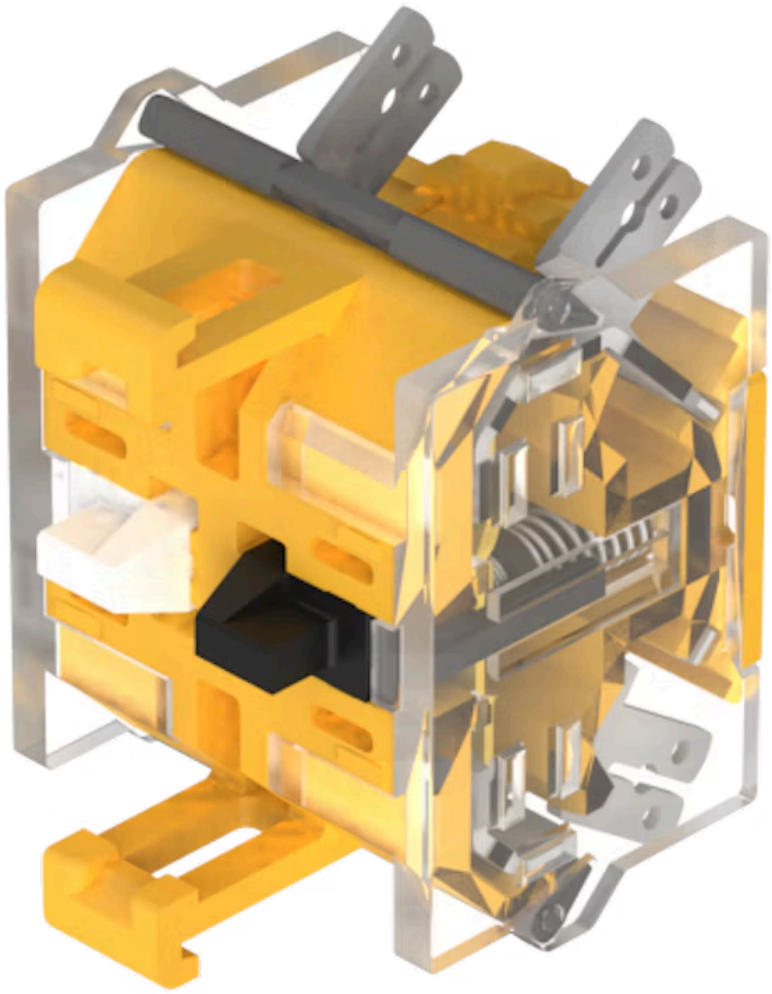
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# Switching element

704.905.5



https://www.eao.com/component/704.905.5/en/sw...

Your product:



# 704.905.5
# Switching element

## ELECTRICAL CHARACTERISTICS

**Switching voltage and switching current:**

as per DIN EN IEC 60947-5-1

| voltage | DC13 | AC15 |
|---|---|---|
| 24 V | 2,5 A | |
| 60 V | 0,8 A | |
| 110 V | 0,6 A | |
| 120 V | | 4,5 A |
| 230 V | 0,2 A | 4,5 A |
| 400 V | 0,15 A | 4,0 A |
| 500 V | 0,7 A | 2,5 A |

as per UL 60947-5-1

| voltage | power |
|---|---|
| 24 VDC | 2,5 A, Pilot duty |
| 60 VDC | 0,8 A, Pilot duty |
| 120 VDC | 0,6 A, Pilot duty |
| 240 VDC | 0,2 A, Pilot duty |
| 415 VDC | 0,15 A, Pilot duty |
| 480 VDC | 0,07A, Pilot duty |
| 120 VAC | 4,5 A, Pilot duty |
| 240 VAC | 4,5 A, Pilot duty |
| 415 VAC | 4,0 A, Pilot duty |
| 480 VAC | 2,5 A, Pilot duty |

For voltages greater than Ue = 400 V, the grid dimensions must not be less than 35 mm x 50 mm.

**Contacts:** 1 NC / 1 NO

**Forward voltage:**

**Rated impulse withstand voltage Uimp:** 4 kV, according to EN/IEC 60947-5-1

**Rated insulation voltage Ui:** 500 V

**Recommended minimum operational data:**

| Gold-silver contacts | | | |
|---|---|---|---|
| Voltage | 5 VDC | 24 VDC | 110 VDC |
| Current | 15 mA | 5 mA | 2 mA |
| Hard silver contacts | | | |
| Voltage | 24 VDC | 110 VDC | |
| Current | 50 mA | 10 mA | |

**Switching rating:** 500 V AC @ 6 A

**Electrical lifetime:** 50 000 cycles of operation

**Pollution degree:** 3

**Standards:** The switches comply with the “Standards for low-voltage switching devices” EN

IEC 60947-5-1

| | |
|---|---|
| **Thermal current Ith:** | 10 A Max. permissible current for continuous operation and ambient temperatures not exceeding the specified max. values. |

## MECHANICAL CHARACTERISTICS

| | |
|---|---|
| **Terminal:** | Plug-in terminal, 6.3 x 0.8 mm |
| **Contact material:** | Silver |
| **Switching system:** | Snap-action switching element |
| **Switching system:** | The double-break, snap-action switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The snap-action switching element is fitted with self-cleaning contacts. |
| **Operating force:** | 1 Normally closed approx. 1.9 N, 1 Normally open approx. 2 N |
| **Wire cross section:** | Plug-in terminal 1 x 6.3 mm x 0.8 mm or 2 x 2.8 mm x 0.8 mm<br>For switches with plug-in terminals it is necessary to provide insulation sleeves and to maintain a spacing of 65 mm between rows (mounting cut-outs). |
| **Weight:** | 0.024 kg |

## AMBIENT CONDITION

| | |
|---|---|
| **IP Protection:** | IP00 |
| **Operating temperature:** | – 40 °C ... + 55 °C |
| **Storage temperature:** | – 40 °C ... + 85 °C |
| **Shock resistance:** | 300 $m/s^2$, pulse width 11 ms, 3-axis, (single impacts, semi-sinusoidal as per DIN EN 60068-2-27) |
| **Vibration resistance:** | 100 $m/s^2$ at 10 Hz ... 500 Hz, amplitude 0.75 mm, (sinusoidal according to DIN EN 60068-2-6) |
| **Climate resistance:** | Relative humidity, max. 95%, non-condensing |

## CERTIFICATE

| | |
|---|---|
| **Approbations:** | CB (IEC 60947-5-1), cULus, DNV, NFF, VDE |
| **Conformities:** | CE, CCC, UKCA |
| **REACH:** | REACH compliant |
| **RoHS:** | RoHS compliant |

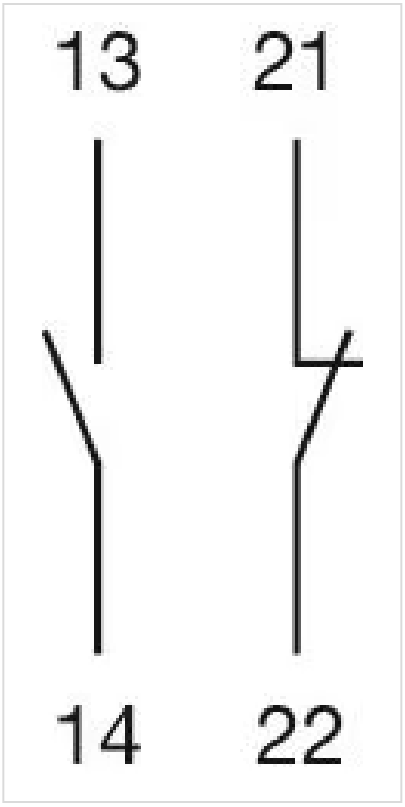
## OTHER

| | |
|---|---|
| **Short Description:** | Switching element, Snap-action switching element, 500 V AC @ 6 A, Silver, 1 NC / 1 NO, Plug-in terminal, 6.3 x 0.8 mm |

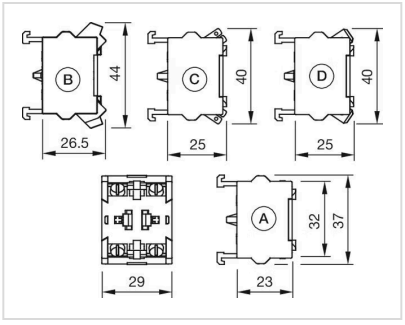
**Hints:**

When using the switching element, the application guidelines must be observed.
For the third switching element the terminal marking insert is to be ordered separately
Operating temperature: Other temperatures on request

**Wiring diagrams:**




**Dimension drawings:**




A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm