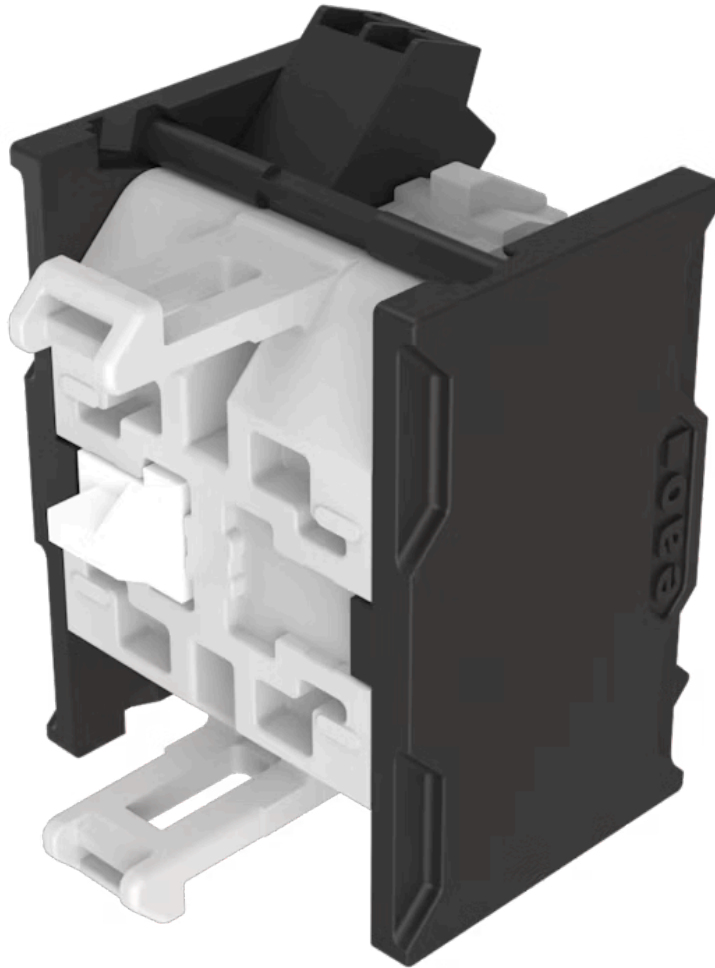


# Switching element - New Version

Distribution by  
Mouser



704.908.1-1



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Your product:

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## 704.908.1-1 Switching element - New Version

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### **ELECTRICAL CHARACTERISTICS**

|   |                             |                    |       |
|---|-----------------------------|--------------------|-------|
| <b>Switching voltage and switching current:</b> | 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           |                    |       |

**Contacts:** 1 NO

**Forward voltage:**

**Rated impulse withstand voltage Uimp:** 4 kV

**Rated insulation voltage Ui:** 500 V

**Recommended minimum operational data:**

|                      |        |
|----------------------|--------|
| Gold-silver contacts |        |
| Voltage              | 24 VDC |
| Current              | 5 mA   |
| Hard silver contacts |        |
| Voltage              | 24 VDC |
| Current              | 50 mA  |

**Switching rating:** 250 V AC @ 6 A

**Electrical lifetime:** 50 000 cycles of operation (500 VAC, 10 A)

**Pollution degree:** 3

**Standards:** The switches comply with the "Standards for low-voltage switching devices" DIN EN IEC UL 60947-5-1

**Thermal current Ith:** Max. current as per EN IEC 60947-5-1 6 A

## MECHANICAL CHARACTERISTICS

**Terminal:** Push-in terminal

**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. 2 N, 1 Normally open approx. 3 N

**Wire cross section:** Wire cross-section 0.2 ... 1.0 mm<sup>2</sup> / AWG 24 to AWG 18  
Skinning wire 8 mm

Max. number of wires: 2  
stranded cables 0.2 ... 0.75 mm<sup>2</sup>/ AWG 24 bis AWG 18  
use stranded wires only with wire end ferrules of 8 mm length  
Max. number of stranded cables: 2  
Only one polarity is allowed on each side when wiring.

**Weight:** 0.02 kg

## AMBIENT CONDITION

**IP Protection:** IP20

**Operating temperature:** - 40 °C ... + 55 °C

**Storage temperature:** - 40 °C ... + 85 °C

**Shock resistance:** (single impacts, semi-sinusoidal) 300 m/s<sup>2</sup>, pulse width 18 ms, as per DIN EN 60068-2-27

**Vibration resistance:** (sinusförmig) 100 m/s<sup>2</sup> bei 10 Hz...500 Hz, nach DIN EN 60068-2-6, Erhöhtes Breitbandrauschen nach DIN EN 61373, Klasse 1B

**Climate resistance:** Relative humidity 10 %rh ... 95 %rh (non-condensing) original packaging according to DIN EN IEC 60721-3-1 Class 1C1

## CERTIFICATE

**Approbations:** CB (IEC 60947-5-1), cULus, DNV, VDE

**Conformities:** CE, CCC, UKCA

**REACH:** REACH compliant

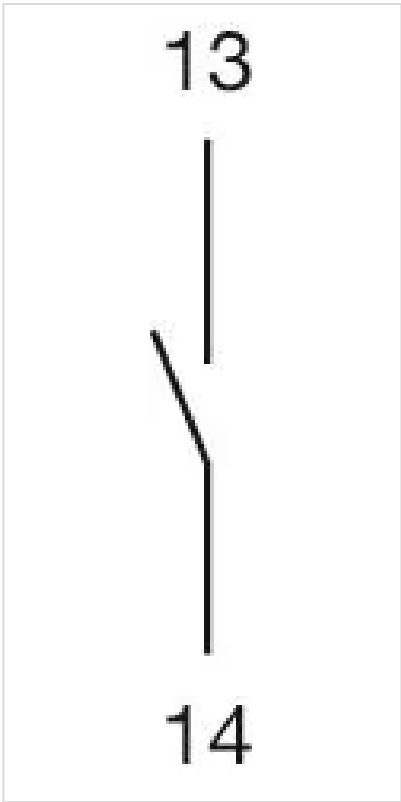
**RoHS:** RoHS compliant

## OTHER

**Short Description:** Switching element - New Version, Snap-action switching element, 250 V AC @ 6 A, Silver, 1 NO, Push-in terminal

**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  
A suitable enclosure is required for applications with increased protection requirements. In North America, the product must be installed in an enclosure in accordance with UL 50E Type 2 or higher.

**Wiring diagrams:**



Dimension drawings:

