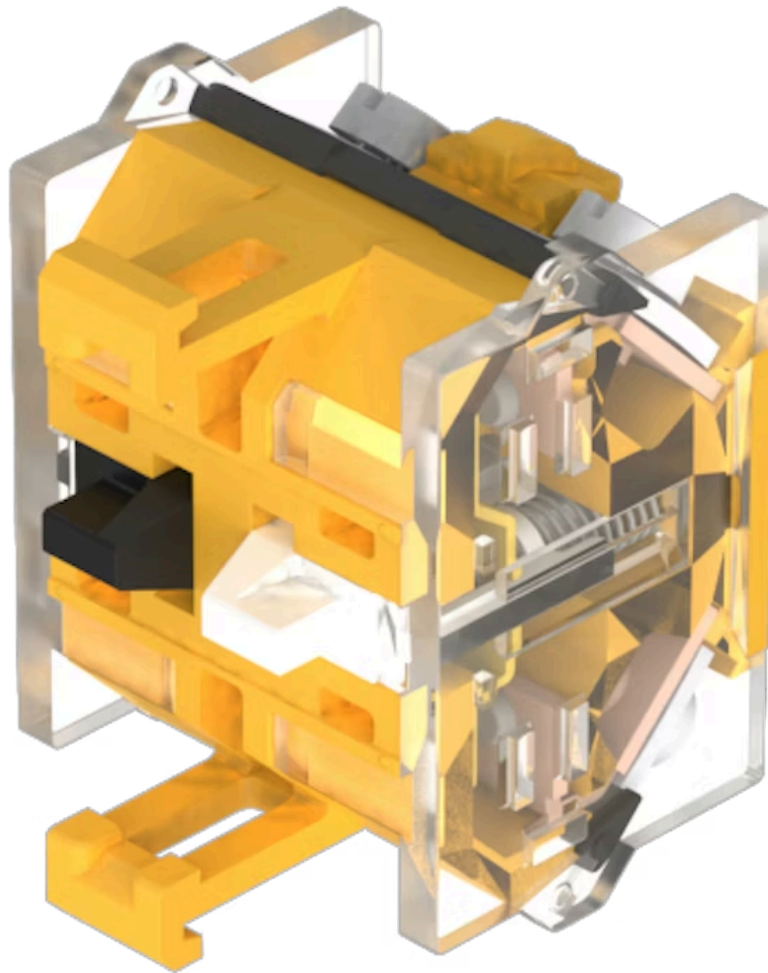


# Switching element - Not recommended for new design

Distribution by  
DigiKey

**DigiKey**

704.900.1B



<https://digikey.eao.com/component/704.900.1B/...>

Your product:



## 704.900.1B

### Switching element - Not recommended for new design

#### PRODUCT RANGE

**Product Status:**

Not Recommended for new design

**successor product:**

<https://www.eao.com/c/704.900.1B-1>

#### 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  $U_e = 400$  V, the grid dimensions must not be less than 35 mm x 50 mm.

**Contacts:**

1 NO

**Rated impulse withstand voltage  $U_{imp}$ :**

4 kV, according to EN/IEC 60947-5-1

**Rated insulation voltage  $U_i$ :**

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 @ 10 A

<b>Electrical lifetime:</b>	50 000 cycles of operation
<b>Pollution degree:</b>	3
<b>Standards:</b>	The switches comply with the "Standards for low-voltage switching devices" EN IEC 60947-5-1
<b>Thermal current I<sub>th</sub>:</b>	10 A Max. permissible current for continuous operation and ambient temperatures not exceeding the specified max. values.

## MECHANICAL CHARACTERISTICS

<b>Terminal:</b>	Ring cable lug screw terminal
<b>Contact material:</b>	Silver
<b>Switching system:</b>	Snap-action switching element
<b>Switching system:</b>	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.
<b>Operating force:</b>	1 Normally closed approx. 1.9 N, 1 Normally open approx. 2 N
<b>Tightening torque:</b>	Screw terminal 0.5 Nm
<b>Wire cross section:</b>	Max. wire cross-section 2 mm x 2.5 mm <sup>2</sup> Skinning wire 10 mm Max. wire cross-section of stranded cable 2 x 1.5 mm <sup>2</sup> use stranded wires only with wire end ferrules of 10 mm length Only one polarity is allowed on each side when wiring.
<b>Weight:</b>	0.015 kg

## AMBIENT CONDITION

<b>IP Protection:</b>	IP20
<b>Operating temperature:</b>	- 40 °C ... + 55 °C
<b>Storage temperature:</b>	- 40 °C ... + 85 °C
<b>Shock resistance:</b>	300 m/s <sup>2</sup> , pulse width 11 ms, 3-axis, (single impacts, semi-sinusoidal as per DIN EN 60068-2-27)
<b>Vibration resistance:</b>	100 m/s <sup>2</sup> at 10 Hz ... 500 Hz, amplitude 0.75 mm, (sinusoidal according to DIN EN 60068-2-6)
<b>Climate resistance:</b>	Relative humidity, max. 95%, non-condensing

## CERTIFICATE

<b>Approbations:</b>	CB (IEC 60947-5-1), cULus, DNV, EAC, NFF, VDE
<b>Conformities:</b>	CE, CCC, UKCA
<b>REACH:</b>	REACH compliant

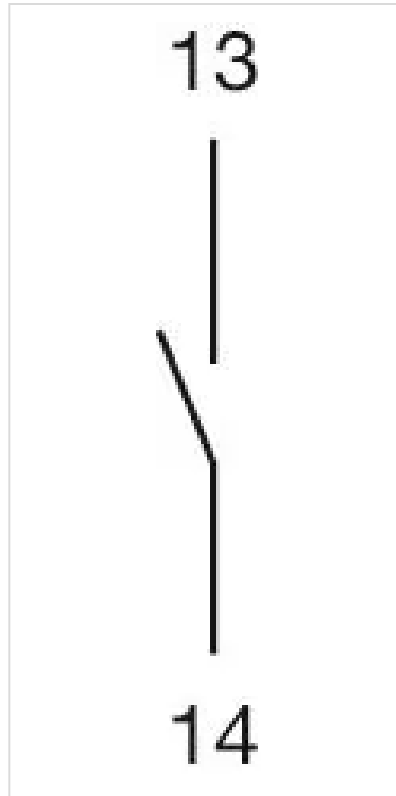
**RoHS:** RoHS compliant

**OTHER**

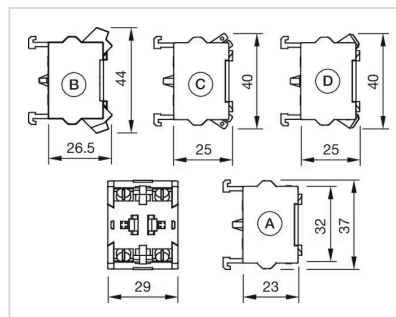
**Short Description:** Switching element - Not recommended for new design, Snap-action switching element, 500 V AC @ 10 A, Silver, 1 NO, Ring cable lug screw terminal

**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

**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