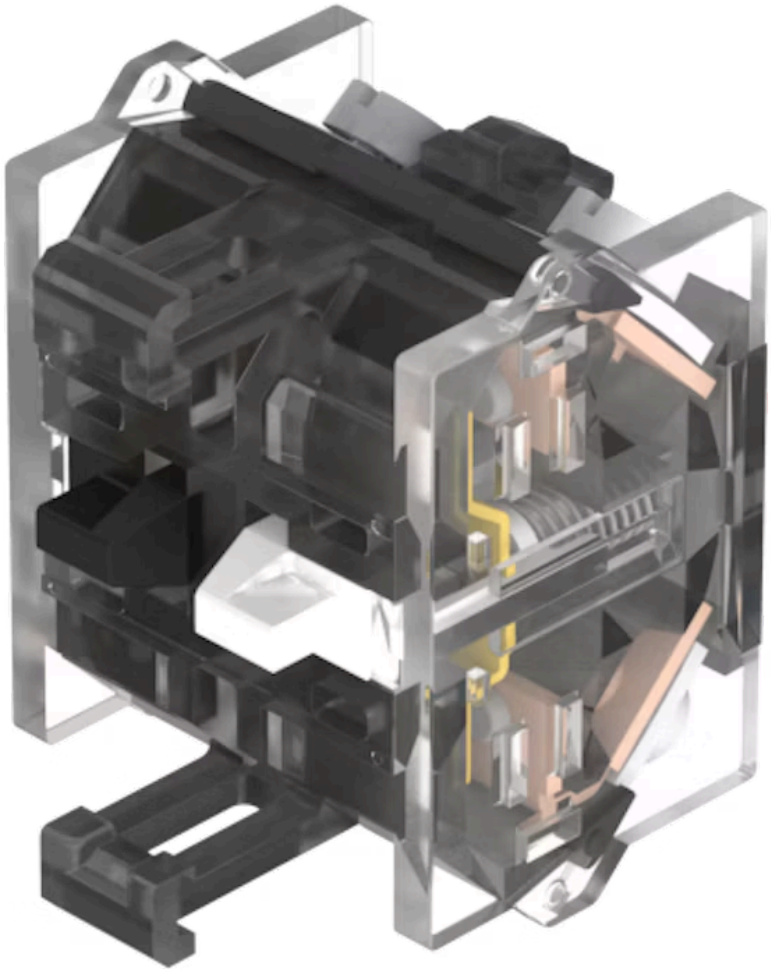
Your Expert Partner for **Human Machine Interfaces**

Switching element

704.910.1



https://www.eao.com/component/704.910.1/en/sw...

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Your product:



704.910.1
Switching element

ELECTRICAL CHARACTERISTICS

Switching voltage and switching current:

as per DIN EN IEC 60947-5-1

voltage	DC13	AC15
24 V	4.0 A	8.0 A
60 V	1.5 A	8.0 A
110 V	1.0 A	
120 V		8.0 A
230 V	0.4 A	7.0 A
400 V	0.2 A	5.0 A
500 V	0.15 A	4.0 A

as per UL 60947-5-1

voltage	power
24 VDC	4.0 A, Pilot duty
60 VDC	1.5 A, Pilot duty
120 VDC	1.0 A, Pilot duty
240 VDC	0.4 A, Pilot duty
415 VDC	0.2 A, Pilot duty
480 VDC	0.14A, Pilot duty
120 VAC	8.0 A, Pilot duty
240 VAC	7.0 A, Pilot duty
415 VAC	5.0 A, Pilot duty
480 VAC	4.0 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 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	24 VDC	110 VDC
Current	5 mA	2 mA
Hard silver contacts		
Voltage	24 VDC	110 VDC
Current	50 mA	10 mA

Switching rating: 500 V AC @ 10 A

Electrical lifetime: 50 000 cycles of operation

Pollution degree: 3

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

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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:	Screw terminal
Contact material:	Silver
Switching system:	Slow-make switching element
Switching system:	The double-break, slow-make switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The normally closed contact has forced opening. Slow-make contacts with forced action are ideal for high switch ratings.
Operating force:	1 Normally closed approx. 2 N, 1 Normally open approx. 3 N
Tightening torque:	Screw terminal 0.5 Nm
Wire cross section:	Max. wire cross-section 2 mm x 2.5 mm^2 Skinning wire 10 mm Max. wire cross-section of stranded cable 2 x 1.5 mm^2 use stranded wires only with wire end ferrules of 10 mm length Only one polarity is allowed on each side when wiring.
Weight:	0.02 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

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OTHER

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Short Description:

Switching element, Slow-make switching element, 500 V AC @ 10 A, Silver, 1 NO, Screw terminal

Hints:

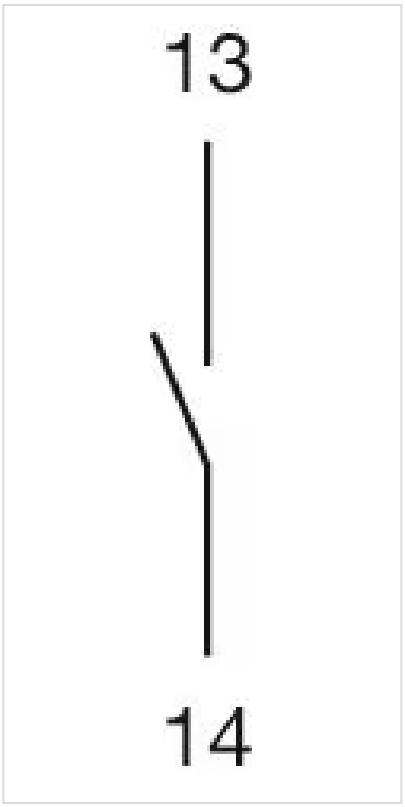
When using the switching element, the application guidelines must be observed.
For the third switching element the terminal marking insert is to be ordered separately
Operating temperature: Other temperatures on request

Special requirements:

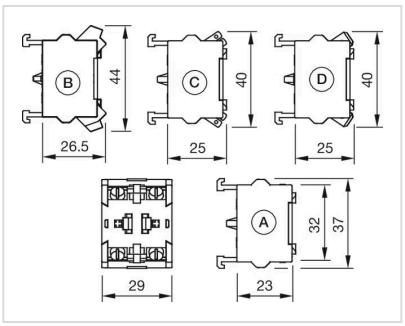
Special requirements for positive-opening auxiliary current switches

Positive opening travel	Emerge
Minimum force	Emerge
	which i
Max. travel	Emerge

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

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