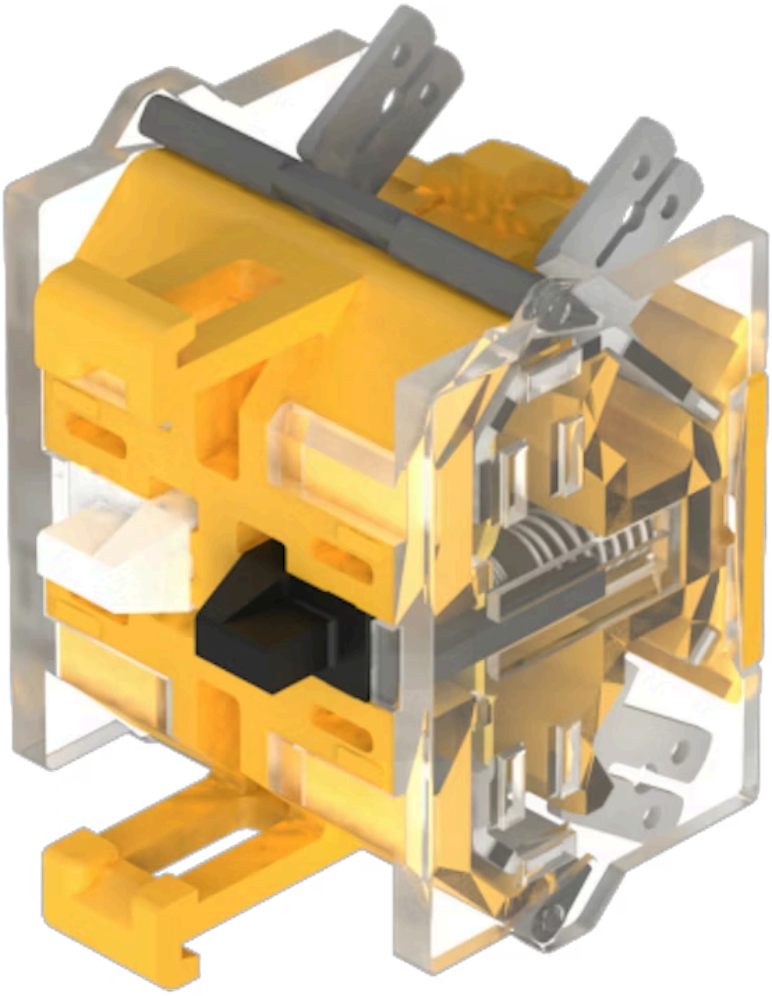
Your Expert Partner for **Human Machine Interfaces**

Switching element - Not recommended for new design

704.905.5



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

Your product:

704.905.5
Switching element - Not recommended for new design

PRODUCT RANGE

Product Status: Not Recommended for new design

successor product: https://www.eao.com/c/704.905.5-1

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

Contacts: 1 NC / 1 NO

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 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, EAC, NFF, VDE
Conformities:	CE, CCC, UKCA
REACH:	REACH compliant
RoHS:	RoHS compliant

OTHER

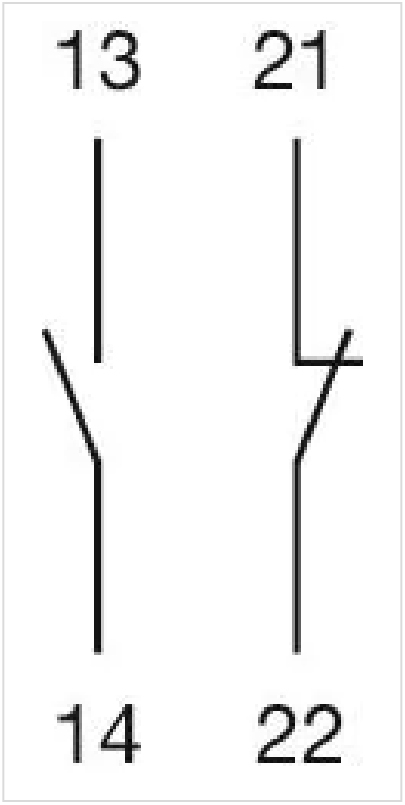
Short Description:

Switching element - Not recommended for new design, Snap-action switching element, 500 V AC @ 6 A, Silver, 1 NC / 1 NO, Plug-in terminal, 6.3 x 0.8 mm

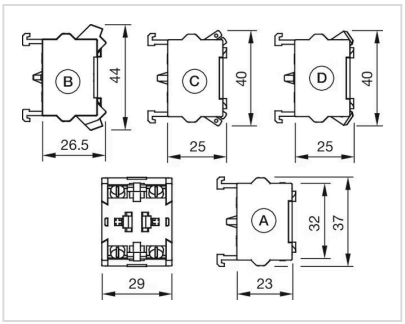
Hints:

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