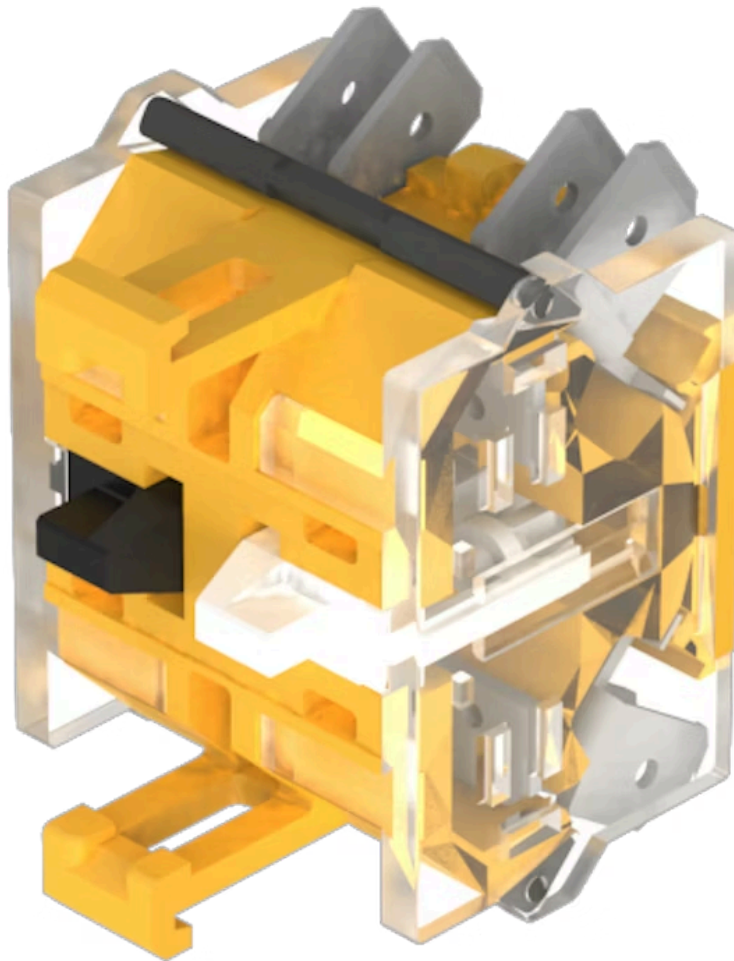


## Switching element - Not recommended for new design

704.901.5/D



<https://www.eao.com/component/704.901.5/D/en/...>

Your product:



# 704.901.5/D

## Switching element - Not recommended for new design

PRODUCT RANGE

**Product Status:** Not Recommended for new design

**successor product:** <https://www.eao.com/c/704.901.5%2FD-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

|                                        |                                                                                                                          |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <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>           | Double plug-in terminal, 6.3 x 0.8 mm                                                                                                                                                                                                 |
| <b>Contact material:</b>   | Gold                                                                                                                                                                                                                                  |
| <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>Wire cross section:</b> | Double plug-in terminal 2 x 6.3 mm x 0.8 mm                                                                                                                                                                                           |
| <b>Weight:</b>             | 0.028 kg                                                                                                                                                                                                                              |

## AMBIENT CONDITION

|                               |                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------|
| <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                               |
| <b>RoHS:</b>         | RoHS compliant                                |

## OTHER

|                           |                                                                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Short Description:</b> | Switching element - Not recommended for new design, Snap-action switching element, 500 V AC @ 6 A, Gold, 1 NC / 1 NO, Double plug-in terminal, 6.3 x 0.8 |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

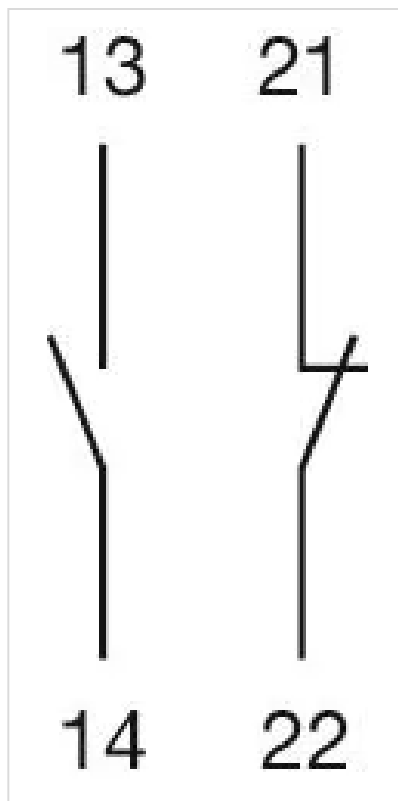
mm

**Hints:**

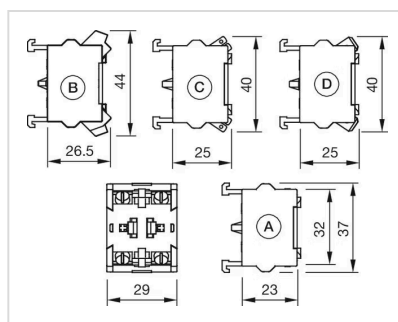
When using the switching element, the application guidelines must be observed.  
For the third switching element the terminal marking insert is to be ordered separately

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