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## Product Notification

# New positioning of switching elements Series 04

Valid immediately

**Contact**

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**Series 04 – New positioning of switching elements.  
New categories of use, new approval partner.**

Dear Sir or Madam

According to the latest standards EAO will newly position its Series 04 switching elements within the categories of use according to EN IEC 60947-5-1. The standard EN IEC 60947-5-1 applies for applications in the machinery market.

**Reason for adapting the utilization categories**

In order to enable future systematic adjustments to longer service lives, compatibility and the use of new materials, we will adapt the utilization categories of the Series 04 switching elements. The user will thus be able to open up new applications and take advantage of the possibilities of future developments.

**New positioning**

The components of the Series 04 are designed as auxiliary current switches, which in practice are not suitable for switching very high loads. With a new positioning by adapting and updating the categories of use according to EN IEC 60947-5-1, it is possible to meet the requirements for auxiliary current switches even better, especially in systems with electronic controls. In addition, we have included the use categories of higher voltages for AC15 and lower voltages for DC13 in the data sheets. However, the thermal current I<sub>th</sub> remains unchanged for all voltages.

**Please note:** The use categories according to UL 508 do not change!

The consequent concrete changes are the following:

## Description of the changes / concrete measures

### 1. New utilization categories

As of 1<sup>st</sup> of August 2022, the following applies to the DC13 utilization categories according to EN IEC 60947-5-1:

DC13 Switching voltage	Snap-action switching element		Slow make switching element	
	Switching current	$I_{th}$	Switching current	$I_{th}$
24V	2.5A	10A	4.0A	10A
60V	0.8A	10A	1.5A	10A
110V	0.6A	10A	1.0A	10A
230V	0.2A	10A	0.4A	10A
400V	0.15A	10A	0.2A	10A
500V	0.07A	10A	0.15A	10A

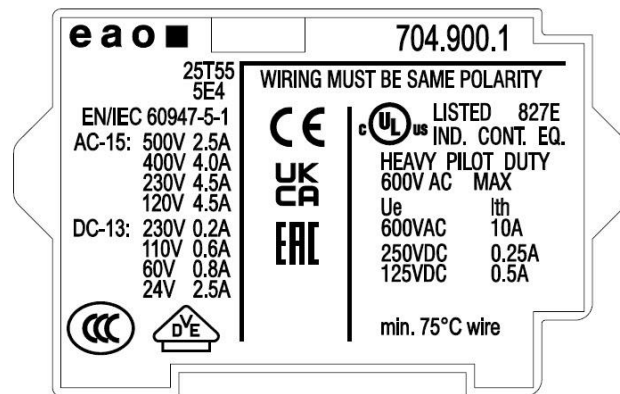
And for AC15, also according to EN IEC 60947-5-1:

AC15 Switching voltage	Snap-action switch element		Slow make switching element	
	Switching current	$I_{th}$	Switching current	$I_{th}$
24V	4.5A	10A	8.0A	10A
60V	4.5A	10A	8.0A	10A
120V	4.5A	10A	8.0A	10A
230V	4.5A	10A	7.0A	10A
400V	4.0A	10A	5.0A	10A
500V	2.5A	10A	4.0A	10A

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current technical standard of the product remains unchanged. This allows us to guarantee replacement even in installations that have been in use for many years. Technically unchanged, these switching elements remain in these new use categories 100% backwards compatible!

The changes can be recognized by the adjusted printing on the switching elements, in which these new use categories are referred to. An example of the new printing is shown in the below picture:



## 2. Change of partner for certifications

In the context of the new positioning of the Series 04 switching elements, we have changed from the Swiss Eurofins to the European-oriented Association for Electrical, Electronic & Information Technologies (VDE) as our testing and approval institute. VDE enjoys a very high reputation worldwide in all our strategic markets, both geographically and in terms of applications, and guarantees our customers decades of reliable availability and partnership.

## 3. What does not change / no influence on quality and reliability

The newly positioned switching elements are completely identical to the previous switching elements except for the printing and the new use categories. This concerns in particular (not complete listing):

- Switching systems
- Dimensions, colours and connections
- All materials used (housing, switching mechanism, contact materials)
- Actuating forces and travels
- IP and IK protection
- Shock and vibration resistance
- Ambient conditions with regard to storage and use
- Thermal current Ith
- Utilization categories according to UL and CSA (newly combined under cULus)

### Further information

- Updated data sheets and certificates are expected to be available in the download area at [www.eao.com](http://www.eao.com) from the beginning of August 2022.

### Availability of products / change of printing

- Newly certified products with new printing are expected to be available ex EAO Headquarters within August.

- Also from this date, no Series 04 switching elements will be produced with the previous printing.

### Product part numbers

- The current part numbers do not change due to this information. See below for affected part numbers.

Kind Regards,



Reinhard Kalla  
Principal Product Manager



Sascha Kropp  
Head of Product Management

Part Number	Description	Datasheet
704.900.1	Snap-action switching element SA 1NO screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.1B	Snap-action switching element SA 1NO screw silver vor ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.2	Snap-action switching element SA 1NC screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.2B	Snap-action switching element SA 1NC screw silver for ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.3	Snap-action switching element SA 2NO screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.3B	Snap-action switching element SA 2NO screw silver for ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.4	Snap-action switching element SA 2NC screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.4B	Snap-action switching element SA 2NC screw silver for ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.5	Snap-action switching element SA 1NC+1NO screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.5B	Snap-action switching element SA 1NC+1NO screw silver for ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.5C	Snap-action switching element BBM SA 1NC+1NO screw silver, version BBM	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.901.1	Snap-action switching element SA 1NO screw gold/silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.901.1D	Snap-action switching element SA 1NO 2xPT 6.3 gold/silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.901.1B	Snap-action switching element SA 1NO screw gold/silver for ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.901.2	Snap-action switching element SA 1NC screw gold/silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.901.2D	Snap-action switching element SA 1NC 2xPT 6.3 gold/silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.901.2B	Snap-action switching element SA 1NC screw gold/silver for ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.901.3	Snap-action switching element SA 2NO screw gold/silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.901.3D	Snap-action switching element SA 2NO 2xPT 6,3 gold/silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.901.3E	Snap-action switching element SA 2NO 2xPT 6,3 gold/silver, 1 activator plunger shortened	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.901.3B	Snap-action switching element SA 2NO screw gold/silver for ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.901.4	Snap-action switching element SA 2NC screw gold/silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.901.4D	Snap-action switching element SA 2NC 2xPT 6,3 gold/silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf



Part Number	Description	Datasheet
704.900.1	Snap-action switching element SA 1NO screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.1B	Snap-action switching element SA 1NO screw silver vor ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.2	Snap-action switching element SA 1NC screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.2B	Snap-action switching element SA 1NC screw silver for ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.3	Snap-action switching element SA 2NO screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.3B	Snap-action switching element SA 2NO screw silver for ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.4	Snap-action switching element SA 2NC screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.907.1	Snap-action switching element SA 1NO PIT gold/silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.907.2	Snap-action switching element SA 1NC PIT gold/silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.907.3	Snap-action switching element SA 2NO PIT gold/silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.907.4	Snap-action switching element SA 2NC PIT gold/silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.907.5	Snap-action switching element SA 1NC+1NO PIT gold/silver	Technical Data_EN_Snap-action switching element PIT_06-07-2022.pdf
704.907.5A	Snap-action switching element SA 1NC+1NO PIT gold/silver, version BBM	Technical Data_EN_Snap-action switching element PIT_06-07-2022.pdf
704.908.1	Snap-action switching element SA 1NO PIT silver	Technical Data_EN_Snap-action switching element PIT_06-07-2022.pdf
704.908.2	Snap-action switching element SA 1NC PIT silver	Technical Data_EN_Snap-action switching element PIT_06-07-2022.pdf
704.908.3	Snap-action switching element SA 2NO PIT silver	Technical Data_EN_Snap-action switching element PIT_06-07-2022.pdf
704.908.4	Snap-action switching element SA 2NC PIT silver	Technical Data_EN_Snap-action switching element PIT_06-07-2022.pdf
704.908.5	Snap-action switching element SA 1NC+1NO PIT silver	Technical Data_EN_Snap-action switching element PIT_06-07-2022.pdf
704.910.1	Switching element slow-make T 1NO screw silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.910.1B	Switching element slow-make T 1NO screw silver for ring cable lug	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.910.2	Switching element slow-make T 1NC screw silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.910.2B	Switching element slow-make T 1NC screw silver for ring cable lug	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.910.3	Switching element slow-make T 2NO screw silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.910.3B	Switching element slow-make T 2NO screw silver for ring cable lug	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.910.4	Switching element slow-make T 2NC screw silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.910.4B	Switching element slow-make T 2NC screw silver for ring cable lug	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.910.4BFS	Switching element slow-make T 1NC+1 failsafe screw silver for ring cable lug	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.910.4FS	Switching element slow-make T 1NC + 1 failsafe screw silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.910.5	Switching element slow-make T 1NC+1NO screw silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.910.5B	Switching element slow-make T 1NC+1NO screw silver for ring cable lug	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.1	Switching element slow-make T 1NO screw gold/silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.1D	Switching element slow-make T 1NO 2xPT 6,3 gold/silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.2	Switching element slow-make T 1NC screw gold/silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.3	Switching element slow-make T 2NO screw gold/silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.3D	Switching element slow-make T 2NO 2xscrew 6,3 gold/silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.3B	Switching element slow-make T 2NO screw gold/silver for ring cable lug	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.4	Switching element slow-make T 2NC screw gold/silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.4D	Switching element slow-make T 2NC 2xPT 6,3 gold/silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.4DFS	Failsafe slow make element SM 1NC + 1 failsafe 2xPT 6,3 Au/Ag	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.4B	Switching element slow-make T 2NC screw gold/silver for ring cable lug	Technical Data_EN_Slow-make switching element_06-07-2022.pdf

Part Number	Description	Datasheet
704.900.1	Snap-action switching element SA 1NO screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.1B	Snap-action switching element SA 1NO screw silver vor ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.2	Snap-action switching element SA 1NC screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.2B	Snap-action switching element SA 1NC screw silver for ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.3	Snap-action switching element SA 2NO screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.3B	Snap-action switching element SA 2NO screw silver for ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.4	Snap-action switching element SA 2NC screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.911.4BFS	Switching element slow-make T 1NC + 1 failsafe screw gold/silver for ring cable lug	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.4FS	Switching element slow-make T 1NC+ 1 failsafe screw gold/silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.5	Switching element slow-make T 1NC+1NO screw gold/silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.5D	Switching element slow-make T 1NC+1NO 2xPT 6,3 gold/silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.911.5B	Switching element slow-make T 1NC+1NO screw gold/silver for ring cable lug	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.912.1	Switching element slow-make T 1NO screw silver/palladium	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.912.3	Switching element slow-make T 2NO screw silver/palladium	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.912.4	Switching element slow-make T 2NC screw silver/palladium	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.912.5	Switching element slow-make T 1NC+1NO screw silver/palladium	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.913.2	Switching element slow-make T 1NC screw Au/Ag Marine	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.913.3	Switching element slow-make T 2NO SCH Au/Ag Marine	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.913.4	Switching element slow-make T 2NC screw Au/Ag Marine	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.913.5	Switching element slow-make T 1NC+1NO screw Au/Ag Marine	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.915.1	Switching element slow-make T 1NO PT6,3 silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.915.1D	Switching element slow-make T 1NO 2xPT 6,3 silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.915.2	Switching element slow-make T 1NC PT6,3 silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.915.2D	Switching element slow-make T 1NC 2xPT 6,3 silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.915.3	Switching element slow-make T 2NO PT6,3 silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.915.3D	Switching element slow-make T 2NO 2XPT 6,3 silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.915.4	Switching element slow-make T 2NC PT6,3 silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.915.4D	Switching element slow-make T 2NC 2XPT 6,3 silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.915.4DFS	Switching element slow-make T 1NC+1 failsafe 2xPT 6,3 silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.915.4FS	Switching element slow-make T 1NC+ 1 failsafe PT 6,3 silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.915.5	Switching element slow-make T 1NC+1NO PT6,3 silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.915.5D	Switching element slow-make T 1NC+1NO 2XPT 6,3 silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.917.1	Switching element slow-make T 1NO PIT gold/silver	Technical Data_EN_Slow-make switching element PIT_06-07-2022.pdf
704.917.2	Switching element slow-make T 1NC PIT gold/silver	Technical Data_EN_Slow-make switching element PIT_06-07-2022.pdf
704.917.3	Switching element slow-make T 2NO PIT gold/silver	Technical Data_EN_Slow-make switching element PIT_06-07-2022.pdf
704.917.4	Switching element slow-make T 2NC PIT gold/silver	Technical Data_EN_Slow-make switching element PIT_06-07-2022.pdf
704.917.4FS	Switching element slow-make T 1NC+1 failsafe PIT gold/silver	Technical Data_EN_Slow-make switching element PIT_06-07-2022.pdf
704.917.5	Switching element slow-make T 1NC+1NO PIT gold/silver	Technical Data_EN_Slow-make switching element PIT_06-07-2022.pdf
704.918.1	Switching element slow-make T 1NO PIT silver	Technical Data_EN_Slow-make switching element PIT_06-07-2022.pdf
704.918.2	Switching element slow-make T 1NC PIT silver	Technical Data_EN_Slow-make switching element PIT_06-07-2022.pdf

Part Number	Description	Datasheet
704.900.1	Snap-action switching element SA 1NO screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.1B	Snap-action switching element SA 1NO screw silver vor ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.2	Snap-action switching element SA 1NC screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.2B	Snap-action switching element SA 1NC screw silver for ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.3	Snap-action switching element SA 2NO screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.3B	Snap-action switching element SA 2NO screw silver for ring cable lug	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.900.4	Snap-action switching element SA 2NC screw silver	Technical Data_EN_Snap-action switching element_06-07-2022.pdf
704.918.3	Switching element slow-make T 2NO PIT silver	Technical Data_EN_Slow-make switching element PIT_06-07-2022.pdf
704.918.4	Switching element slow-make T 2NC PIT silver	Technical Data_EN_Slow-make switching element PIT_06-07-2022.pdf
704.918.4FS	Switching element slow-make T 1NC+ 1 failsafe PIT silver	Technical Data_EN_Slow-make switching element_06-07-2022.pdf
704.918.5	Switching element slow-make T 1NC+1NO PIT silver	Technical Data_EN_Slow-make switching element PIT_06-07-2022.pdf
704.950.0	Lamp block screw	N/A
704.950.0/T	Lamp block screw	N/A
704.950.0B	Lamp block screw	N/A
704.950.1	Lamp block PT6,3	N/A
704.950.1/D	Lamp block 2xPT6,3	N/A
704.950.2/D	Lamp block 2xPT6,3, version without CSA, both plug terminals nickel plated	N/A
704.950.3	Lamp block PIT	N/A
704.951.0	Lamp block 3 positions selector switch screw	N/A
704.951.0B	Lamp block 3 positions selector switch screw terminals for ring cable shoe	N/A
704.951.1	Lamp block 3 positions selector switch S 6,3	N/A
704.951.1/D	Lamp block 3 positions selector switch 2xS 6,3	N/A
704.951.3	Lamp block 3 positions selector switch PIT	N/A
704.952.129.3	Lamp block, dual LED 4 pol 24VDC white/white PIT	N/A
704.952.159.3	Lamp block, dual LED 4 pol 110VDC white/white PIT	N/A
704.952.22A.3	Lamp block, dual LED 4 pol 24VDC green/red PIT	N/A
704.952.25B.3	Lamp block, dual LED 4 pol 110VDC green/red PIT	N/A