

CERTIFICAT



CERTIFICADO



СЕРТИФИКАТ



認證證書



CERTIFICATE



ZERTIFIKAT



Italia

# CERTIFICATE

**Machinery Directive 2006/42/EC Annex. IX**  
**EC type-examination certificate for logic units to ensure safety functions**  
**(ref. Annex IV – 21)**

<b>Certificate No.:</b>	<b>TUV IT 0948 25 MAC 479 B</b>
<b>Name and address of manufacturer:</b>	Euchner GmbH + Co. KG 70771, Kohlhammerstr. 16 Leinfelden-Echterdingen Germany
<b>Designation:</b>	Safety module
<b>Model/type:</b>	CMS-E-AR <input type="checkbox"/> Single sample <input checked="" type="checkbox"/> Group of samples
<b>Reference Standards:</b>	EN ISO 13849-1:2023 - EN ISO 13849-2:2012 EN 60204-1:2018
<b>Test report:</b>	<b>TTR-25-0948-MAC-722382573-02</b>

**We herewith certify, as per Notified Body no.0948, that the product for the respective scope of application stated in the annex to this EC type-examination certificate meets the requirements of the Directive:**

**2006/42/CE**

<b>Issue date:</b>	<b>06/05/2025</b>
<b>Expiry date:</b>	<b>29/03/2030</b>



00077



**TÜV Italia S.r.l.**  
**Notified Body, Identification N° 0948**

**Alberto Carelli**

**Industrie Service Division Manager**

<b>First Issue date:</b>	<b>30/03/2010</b>
<b>Expiration date of the last certification cycle:</b>	<b>29/03/2025</b>





## Annex to EC type-examination certificate n° TUV IT 0948 25 MAC 479 B

### 1. Scope:

The CMS-E-AR safety control unit is able to control the status of one or more magnetic sensors with three N.O. contacts activated by coded magnetic units: the output is closed only if the three N.O. contacts of each sensor are closed; the switching of\ even just one sensor determines a safety situation, placing the safety output in the open state. The control unit starts automatically by positioning the magnetic units in the activation zone of the respective sensors.

#### Inputs

The CMS-E-AR safety control units is able to control from 1 to 30 devices (up to 2 directly connected to the control unit; from 3 to 30 by connecting the N.O. contacts in series).

#### Outputs

The CMS-E-AR safety control units has a N.O. safety output.

#### Safety category

Depending on the number of sensors used and their connection to the control unit, the CMS-E-AR is able to ensure a safety category 1 or 3 (UNI EN ISO 13849-1:2023).

- Category 1: from 3 to 30 sensors connected in series
- Category 3: 1 or 2 sensors connected directly to the control unit.

The component falls under Annex IV point 21 of the Machinery Directive 2006/42/EC as it belongs to the category *“Logic units to ensure safety functions”*.

### 2. Reference Standard:

EN ISO 13849-1:2023 - EN ISO 13849-2:2012  
 EN 60204-1:2018

The standards cited on the reference certificate of this Annex (see above)

- ☒ have been fully applied  
☐ have been partially applied





Italia

### 3. Main technical characteristics

#### CMS-E-AR: General characteristics

Power supply: 24 V ac  $\pm 10\%$  (50 ÷ 60 Hz)

24 V dc  $\pm 10\%$

Current consumption (mA): 10 min, 70 max

Short circuit protection: PTC 750 mA

Housing material: PA 6.6

Mounting: 35 mm standard DIN rail

Protection degree: IP20

Operating temperature: 0°C ÷ +50°C

Storage temperature: -25°C ÷ +70°C

Connections: screw terminals (tightening torque 0.5 Nm)

Maximum voltage on the safe output (terminals 13-14): 250 V ac/dc

Maximum current on the safe output: 3 A

Maximum power on the safe outputs (ohmic load): 750 VA

Life mechanical:  $10^7$  cycles

#### SIGNALS:

POWER, green LED = power supply

S1, green LED = Sensor1

S2, green LED = Sensor2

#### TERMINAL FUNCTION:

A1: Power supply +24 V dc / 24 V ac

A2: Power supply GND / 24 V ac

#### Inputs:

1-2-3-4: Sensor inputs 1

5-6-7-8: Sensor inputs 2

#### Outputs:

13-14: Safe output





Reliability data:

Safety category (EN ISO 13849-1)	3 with 1 or 2 sensors (see option combination table)		1 with more then 2 sensors (see option combination table)		
PL (EN ISO 13849-1)	e		c		
nop (n. operations / year)	30917	17472	52560	17472	N°op. / year
MTTFd	64	100	38	100	years
PFHd	8,84x10 <sup>-8</sup>	4,29x10 <sup>-8</sup>	9,39x10 <sup>-7</sup>	2,29x10 <sup>-7</sup>	
TM	20				years

4. Conditions of validity of the certificate

The validity of the EC type examination certificate is subject to review every five years. If the validity is not extended, the manufacturer has the obligation to stop placing the machine on the market.

The manufacturer has the obligation to communicate any modification made to the approved type. TÜV Italia reserves the right to confirm the validity of the EC type examination certificate issued.

5. Note

In accordance with the provisions of the Machinery Directive 2006/42/EC, the applicant must inform the notified body regarding the modifications, even of minor importance, that he has made or intends to make to the model of the machine to which the certificate refers.  
Copy of the test report n.: **TTR-25-0948-MAC-722382573-02** is delivered to the Manufacturer.

The validity of this certificate is linked to the validity of the EC type examination certificate n° **TUV IT 0948 10 MAC 009 B Rev.04**

This annex is an integral part of the EC type examination certificate n°  
**TUV IT 0948 25 MAC 479 B**

Milan, 06/05/2025





### Information regarding the TÜV Italia Certificate

This certificate is only valid for the referenced company and its facilities stated on the certificate. Only the Certification Body is allowed to transfer (assign) it to a third party.

The right to use the marking depicted on the certificate covers solely products, which match with the type approval and the specifications within the test report or within its complementary (additional) agreements.

Each product has to contain (be accompanied) the necessary operating and assembly instructions. Each product must bear the clearly visible identification of the manufacturer or importer as well as a type plate, in order to identify the compliance of the type approval with the product placed on the market.

The holder of the TÜV Italia certificate is obliged to continuously observe if the manufacture of the marked products complies with the test requirements; he is obliged to perform the control tests defined within the test requirements or by the Certification Body in an orderly manner.

Aside from the conditions referenced above, the conditions within the General Contract are effective for the TÜV Italia certificate.

It is valid as long as the state of the art requirements on which the test (approval) was based, are effective, if it was not withdrawn prior on conditions within the General Contract.

If this certificate expires or is withdrawn it has to be returned to the Certification Body immediately.