



CERTIFICATE

**Machinery Directive 2006/42/EC Annex. IX - EC type-examination
certificate for safety components
(rif. Annex IV – 21)**

Certificate No.: TÜV IT 0948 17 MAC 0088 Rev.01

Name and address of manufacturer: Euchner GmbH + Co. KG
Kohlhammerstr. 16
70771 Leinfelden-Echterdingen
Germany

Product: Logic units for the control of the safety
functions controlling mechanical sensors,
Hall and Reed effect magnetic sensors and
emergency stop devices

Model/type: CMS-E-ER – CMS-E-FR

Test report: TR 0948 MAC 0005_R.05, 21/02/2020

Reference Standards: EN ISO 13849-1:2015 - EN ISO 13849-2:2012
IEC 60947-5-3:2013 – EN ISO 14119:2013
EN ISO13850:2015

**We herewith certify that the safety component 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

First Issue data: 30/03/2010

Issue date: 02/04/2020

Expiry date: 01/04/2025



PRD N° 081B

Membro degli Accordi di Mutuo Riconoscimento
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Recognition Agreements



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

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Annex of EC type-examination certificate N° TÜV IT 0948 17 MAC 0088 Rev.01

1. Scope

Safety modules CMS-E-ER and CMS-E-FR are intended to control and monitoring safety devices used in machinery (interlocked guard, emergency stop) up to category 4 according to EN ISO 13849-1.

Connected with Reed and Hall magnetic sensors, it is also designed to have a defined behaviour under fault condition in accordance with the requirements of EN 60947-5-3:2013 standard.

The two modules differ in the maximum number of input sensors.

Module CMS-E-ER:

- up to two sensors with direct connection on the control unit terminals,
- up to 30 sensors with external connections (series for N.A., parallel for N.C.).

Module CMS-E-FR: up to six sensors with LED indicating the sensor status.

The CMS-E-FR module is made by adding an expansion to the CMS-E-ER version which provides additional four sensors for input.

Safety modules are complex component referred to in Annex IV, item 21 of Machinery Directive 2006/42/EC, being "Logic units ensuring safety functions".

2. Main Technical Data

a. Module CMS-E-ER

| | |
|---------------------------|--|
| Power supply: | 24 V _{AC} ± 10% (50 ÷ 60 Hz) 24 V _{DC} ± 10% |
| Current consumption: | 10 ÷ 110 mA @ 24 V _{DC} 30 ÷ 150 mA @ 24 V _{AC} |
| Short circuit protection: | PTC 750 mA |
| Protection degree: | IP20 |



Operating temperature: 0 °C ÷ 55 °C
 Storage temperature: - 25 °C ÷ 70 °C Italia
 Maximum voltage on safe outputs (terminals 13-14, 23-24): 240 V_{AC}
 Maximum current on safe outputs: 3 A
 Maximum power on safe outputs (resistive load): 720 VA
 Maximum voltage on the auxiliary output N.C. : 24 V_{AC/DC}
 Maximum current on the auxiliary output N.C. : 1,5 A
 Mechanical life: 10⁷ cycles

PL according to EN ISO 13849-1: d, e

b. Module CMS-E-FR

Power supply: 24 V_{AC} ± 10% (50 ÷ 60 Hz)
 24 V_{DC} ± 10%
 Current consumption: 10 ÷ 120 mA @ 24 V_{DC}
 30 ÷ 170 mA @ 24 V_{AC}
 Short circuit protection: PTC 750 mA
 Protection degree: IP20
 Operating temperature: 0 °C ÷ 55 °C
 Storage temperature: - 25 °C ÷ 70 °C
 Maximum voltage on safe outputs (terminals 13-14, 23-24): 240 V_{AC}
 Maximum current on safe outputs: 3 A
 Maximum power on safe outputs (resistive load): 720 VA
 Maximum voltage on the auxiliary output N.C. : 24 V_{AC/DC}
 Maximum current on the auxiliary output N.C. : 1,5 A
 Maximum voltage on the optically isolated auxiliary optoisolate. : 24 V_{DC}
 Maximum current on the optically isolated auxiliary optoisolate.: 50 mA
 Mechanical life: 10⁷ cicli
 PL according to EN ISO 13849-1: d, e



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3. Conditions of validity of the certificate

The validity of the EC-type examination certificate is reviewed every five years. If the validity is not extended, the manufacturer is obliged to cease placing the machine on the market.

The manufacturer is obliged to communicate any changes made to the approved type. TÜV Italia reserves the right to confirm the validity of the EC-type examination certificate issued.

4. Note

The validity of this certificate is linked to the validity of the EC type examination certificate n° TÜV IT 0948 10 MAC 0005_REV.05.

In accordance with the provisions of the machinery directive 2006/42 / EC, the applicant must inform the notified body about the changes, albeit of little importance, that he has made or intends to make to the safety component to which the certificate refers.

This annex forms an integral part of the EC type examination certificate n° TÜV IT 0948 17 MAC 0088 rev.01

Sesto San Giovanni, 02/04/2020