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CERTIFICATE

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

Certificate No.: TÜV IT 0948 16 MAC 0079 Rev.01

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

Product: Logic units for the monitoring of Reed effect magnetic sensors to ensure safety function

Model/type: CMS-E-AR, CMS-E-AR-1

Test report: TR 0948 MAC 0009_R.03, 21/02/2020

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

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

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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 16 MAC 0079 Rev.01

1. Scope

Safety relay model CMS-E-AR is intended to control and monitoring one or more Reed effect magnetic sensor with three N.O. contact actuated by magnetic coded units.

The start is automatic with the positioning of the magnetic units in the activation zone of the respective sensor.

Safety relay model CMS-E-AR can control from 1 to 30 devices (up to two directly connected to the card; from 3 to 30 series connected with N.O. contacts).

Safety relay model CMS-E-AR has a safety output (pin 13-14) whose activation is managed by two normally open contacts and one normally closed contact placed in series.

The system consisting of Hall and Reed magnetic sensors and the respective safety control unit is designed to have a defined behaviour in case of failure according to the requirements of EN60947-5-3: 2013.

Depending on the number of sensors used and their connection to the board, the CMS-E-AR is able to ensure a safety category 1, 2, or 3 according to EN ISO 13849-1:

- Category 1: from 3 to 30 series connected sensors;
- Category 2: from 3 to 30 series connected sensors with regular inspection of the system (every 8 hours or at the beginning of the work shift) to control the correct switching.
- Category 3: 1 or 2 sensors connected directly to the safety relay.

CMS-E-AR-1 safety relay arise from model CMS-E-AR, having in same wiring diagram and safety functions, but different PCB tracks, housing and terminals.

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



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2. Main Technical Data

Power supply:	24 V _{AC} ± 10% (50 ÷ 60 Hz) 24 V _{DC} ± 10%
Current consumption:	10 ÷ 70 mA
Short circuit protection:	PTC 750 mA
Case material:	PA 6.6
Assembly:	guide DIN standard 35 mm
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 safe outputs (terminals 13-14):	250 V _{AC}
Maximum current on safe outputs:	3 A
Maximum power on safe outputs (resistive load):	750 VA
Mechanical life:	10 ⁷ cicli
PL according to EN ISO 13849-1:	e

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.



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4. Note

The validity of this certificate is linked to the validity of the EC type examination certificate n° TÜV IT 0948 10 MAC 0009 rev.03.

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 16 MAC 0079 Rev.01.

Sesto San Giovanni, 02/04/2020