



CERTIFICATE

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

Certificate no:

TÜV IT 0948 15 MAC 0072 B

Date of submission:

05/02/2015

Name and address of manufacturer:

LEUZE Electronic GmbH+Co. KG

In der Braike 1 73277 OWEN

Product:

Logic unit for the control of the safety functions controlling mechanical sensors, magnetic sensors and emergency stop

devices

Model:

MSI-MC310

Test report:

Reference Standards:

TR 0948 MAC 0005_R.03, 29.03.2015

EN ISO 13849-1:2008 - EN ISO 13849-2:2008 EN 60947-5-3:2014, 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

Issue date: 18/09/2015 Expiry date: 29/03/2020

ACCREDIA

Further information are enclosed. Please see remarks on reverse.

TÜV Italia S.r.l.

Notified Body/Identification N° 0948

Dr. Gennaro Oliva

Industrie Service Manager



Annex to the EC-type examination certificate n° TÜV IT 0948 15 MAC 0072 B

1. Scope

The electronic board MSI-MC310 is designed to control the risks of the machines (interlocked guards, emergency stop) up to Category 4 in accordance with EN ISO 13849-1 (EN 954-1).

In connection with magnetic sensors, they are also designed to have an increased resistance to failures according to the requirements of EN 60947-5-3.

MSI-MC310:

- Up to two sensors with direct connection to the terminals of the control unit,
- Up to 30 sensors with external connections (set to N.O., parallel to N.C.).

The devices are listed in Annex IV point 21 of Machinery Directive 2006/42/EC as belonging to the category "21. Logic units to ensure safety functions".

Main technical data 2.

Supply:

 $24 V_{AC} \pm 10\% (50 \div 60 Hz)$

 $24 V_{DC} \pm 10\%$

Current consumption:

10 ÷ 110 mA @ 24 V_{DC}

30 ÷ 150 mA @ 24 V_{AC}

Short-circuit protection:

PTC 750 mA

Degree of protection:

IP20

Ambient temperature, operation:

0 °C ÷ 55 °C

Ambient temperature, storage:

- 25 °C ÷ 70 °C

Maximum voltage on the safe outputs (terminals 13-14, 23-24): 240 V_{AC}

Max. switched current:

3 A

Max. switching power:

720 W

Maximum voltage on the auxiliary outputs N.C.:

24 V_{AC/DC}

Maximum current on the auxiliary outputs N.C.:

1.5 A

Mechanical life time:

10⁷ cycles





Classification accordance with IEC 60947-5-31: PDF-S, PDF-M (with one sensor)

PL in accordante with EN ISO 13849-1: d, e

¹in connection with the following sensors classified as devices interlock type 4, according EN ISO 14119:

Connectable sensors: MC388-S1xxxxx, MC336-S1xxxxx, MC330-S1xxxxx

Conditions 3.

The validity of the EC type-examination certificate is subject to review every five years. In the event that the validity of the EC-type examination certificate is not renewed, the manufacturer shall cease the placing on the market of the machinery concerned.

The applicant shall inform TÜV Italia of all modifications to the approved type. TÜV Italia may or not confirm the validity of the EC-type examination certificate issued.

Notes 4.

The manufacturer shall retain a copy of this certificate, of the technical file and of all the relevant documents for a period of 15 years from the date of issue of the certificate.

This annex is an integral part of the EC-type examination certificate n° TÜV IT 0948 15 MAC 0072 B.

Sesto San Giovanni, 18/09/2015