



Italia

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 0071 B Rev.1

Date of submission: 16/01/2017

Name and address of manufacturer: LEUZE Electronic GmbH+Co. KG
In der Braike 1
73277 OWEN

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

Model/type: MSI-MC311

Test report: TR 0948 11 MAC 0027-1B, R01

Reference Standards: EN ISO 13849-1:2015 - EN ISO 13849-2:2012
EN 60947-5-3:2014, EN ISO 14119:2013,
EN13850:2015

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 date: 18/09/2015

Issue date: 13/02/2017

Expiry date: 21/06/2021



SGQ N° 049A SSI N° 055G ISP N° 057E
SGA N° 018D ITX N° 001L LAB N° 0076
SCR N° 009F SGE N° 013M PRD N° 081B
EMAS N° 013P PRS N° 077C

Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual
Recognition Agreements



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

Paolo Marcone
Paolo Marcone

Industrie Service Division Manager

Annex to the EC-type examination certificate n° TÜV IT 0948 15 MAC 0071 B Rev.1

1. Scope

The electronic model MSI-MC311 is designed and built to control the status of contacts (two normally open) commands from the emergency stop and interlock magnetic sensors or mechanical.

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.

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".

2. Main technical data

Supply:	24 V ac +10%, -15% 50 – 60 Hz 24 V dc +10%, -15%
Current consumption:	@24Vdc: 25 min, 100 max; @24Vac: 110 min, 220 max
Short-circuit protection:	PTC 750 mA
Housing material:	PA 6.6
Assembly:	DIN standard 35 mm
Protection degree:	IP20
Ambient temperature, operation:	-5°C ÷ 55°C
Ambient temperature, storage:	- 25°C ÷ 70°C
Connections:	Screw terminals (tightening torque 0,5 Nm)
Maximum voltage on the safe outputs (terminals 13-14, 23-24):	240 Vac/dc
Maximum current on the safe outputs:	3 A (AC-1)
Maximum power on the safe outputs (resistive load):	720 VA
Maximum voltage auxiliary:	24 Vdc
Maximum current auxiliary output:	0,5 A
Mechanical life time:	10 ⁷ cycles
Stop Category EN 13850:	0
PL in accordance with EN ISO 13849-1:	d, e
The sensors used are classified as type 4 interlocking devices according to the standard EN ISO 14119:	
Connectable sensors: MC388-S2xxxxx, MC336-S2xxxxx, MC330-S2xxxxx	



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3. Conditions

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.

4. Notes

II 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 0071 B Rev.1.**

Sesto San Giovanni, 13/02/2017