



America

CERTIFICATE

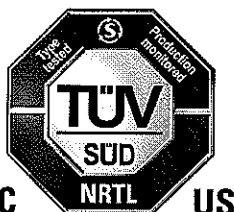
No. U8V 11 08 22795 097

Holder of Certificate: **Leuze electronic GmbH + Co. KG**

Liebigstrasse 4
82256 Fürstenfeldbruck
GERMANY

Production Facility(ies): 70507

Certification Mark:



Product: **Safety Relays
(Safety Relay)**

Model(s): **MSI-SR5**

Parameters:

Supply Voltage:	24 VDC ± 20%
Contact Load:	2A / 250V
Current Consumption:	150 mA
Protection Class:	II
Temperature, Ambient:	55°C

See attachment for further information.

Tested according to:

CAN/CSA-C22.2 No.14/R:2010-09
UL 508/R:2010-04
(Supplemented by
CAN/CSA-E61496-1:2004
UL 61496-1/R:2007-02)

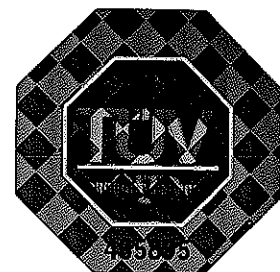
The product is intended and certified for Canada and USA. Additional requirements may apply in other countries.

The product was voluntarily tested according to the relevant safety requirements and mentioned properties. It can be marked with the certification mark shown above. The certification mark must not be altered in any way. This product certification system operated by TÜV SÜD America Inc. most closely resembles that described by ISO/IEC Guide 67, Conformity assessment - Fundamentals of product certification, System 3. See also notes overleaf.

Test report no.: 231-1102995-000

Date, 2011-08-26

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**ATTACHMENT TO CERTIFICATE NO. U8V 11 08 22795 097
for Leuze electronic GmbH + Co. KG**

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Safety Relay**CONDITIONS OF ACCEPTABILITY:**

When installed in the end use equipment, the following are among the considerations to be made:

- 1) Improper or inappropriate use can result in danger to the life and limbs of the machine operator or in damage to property.
- 2) The relevant regulations are valid for the use of MSI E-STOP relays. The category of E-STOP function must be determined under consideration of the risk evaluation of the machinery. The responsible local authorities are available to answer questions related to safety issues.
- 3) The mechanical and electrical installation is to be performed by trained specialists.
- 4) The voltage supply to the system must be switched off before and during installation.
- 5) Contact mechanisms with positive-guided contacts must be implemented for the contact multiplication of the release circuits.
- 6) If the "Automatic Start" operating mode is switched, this mode remains active even after an operating voltage failure.
- 7) If connecting single-channel AOPDs or Safety Switches in acc. to Cat. 2, EN ISO 13849-1: 2008, the testing stipulated in this standard is to be ensured separately.
- 8) The MSI-SR5 is not suitable for open wall mounting and must be built into protective enclosure minimum of IP54/NEMA 3. Proper enclosure type shall be added and evaluated per environmental conditions of the end user.
- 9) The connections 29;30;31;32 are equipped with reinforced isolation with respect to the housing and the rest of the connections. It is not admitted to wire a combination consisting protective extra low voltage (PELV) with low voltage (e.g. 230~) on connections 29;30;31;32.
- 10) Finger-safe in accordance with DIN VDE 0106 Section 100, maximum stripped length of the connecting cables: 8 mm
- 11) In order to prevent the output contacts from welding together, an external fuse of max. 5 A quick-action or 3.15 A delay-action must be interposed.
- 12) Terminal 14 and 22 are not intended for operating external devices, rather only for supplying potential-free contacts.
- 13) Switching off the supply voltage for operating purposes is to be made impossible.
- 14) Integration of the Safety Relay in the control circuits according to EN ISO 13849-1:2008.
- 15) Lay the supply voltage cables separately according to EN ISO 13849-1:2008
- 16) When connecting potential-free contacts to inputs S (21,13,23,15) of the safety relay, a safety fuse is to be interposed in accordance with DIN EN 50156-1. Note the operating instructions of the connected components.