



America

CERTIFICATE

No. U8V 16 10 22795 115

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

In der Braike 1
73277 Owen
GERMANY

Production Facility(ies):
70507

Certification Mark:



C US

Product: **Safety Relays**

Model(s): **MSI-SR4B-01, MSI-SR4B-02**

Parameters:

Rated Input Voltage:	24 V AC/DC \pm 20%
Rated Input Current:	2.1W(AC) / 1.7W (DC)
Rated Output Voltage:	230 V AC / 24 V DC
Rated Output Current:	5 A (AC) / 3 A (DC)
Protection Class:	I
Ambient Temperature:	55°C

See attachment for further information.

Tested according to:

UL 508/R:2013-10
CAN/CSA-C22.2 No. 14:2013
Supplemented by
CAN/CSA-E61496-1:2004
UL 61496-1/R:2011-09
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 noted above. It can be marked with the certification mark above. The mark must not be altered in anyway. This product certification system operated by TÜV SÜD America Inc. most closely resembles system 3 as defined in ISO/IEC 17067. Certification is based on the TÜV SÜD "Testing and Certification Regulations". TÜV SÜD America Inc. is an OSHA recognized NRTL and a Standards Council of Canada accredited certification body.

Test report no.: 231-72119363-000

Valid until: 2021-10-03

Date, 2016-10-11

Page 1 of 2



ATTACHMENT TO CERTIFICATE NO. U8V 16 10 22795 115
for Leuze electronic GmbH + Co. KG



America

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 MSI-SR4 is suited only for uncontrolled shut-down (IEC 60204-1 Stop Category 0).
- 4) The mechanical and electrical installation is to be performed by trained specialists.
- 5) The voltage supply to the system must be switched off before and during installation.
- 6) Contact mechanisms with positive-guided contacts must be implemented for the contact multiplication of the release circuits.
- 7) If the "Automatic Start" operating mode is switched, this mode remains active even after an operating voltage failure.
- 8) If connecting single-channel switches or AOPDs (e.g. Figure 1) acc. to Cat. 2, EN ISO 13849-1: 2006, the testing stipulated in this standard is to be ensured separately.
- 9) The MSI-SR4 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.
- 10) The connections 13; 14; 23; 24; 33; 34; 41; 42 have reinforced isolation against the housing and the rest of connections (see page 1). It is not admitted to wire a combination consisting protective extra low voltage (PELV) with low voltage (e.g. 230~) on connections 13; 14; 23; 24; 33; 34; 41; 42.
- 11) Finger-safe in accordance with DIN VDE 0106 Section 100, maximum stripped length of the connecting cables: 8 mm
- 12) 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.
- 13) S33 is not intended for operating external devices, rather only for supplying potential-free contacts.
- 14) Switching off the supply voltage for operating purposes is to be made impossible.
- 15) In accordance with EN ISO 13849-1: 2006, A2 and S22 are to be laid to 0 V using separate wiring arrangements.
- 16) The lines at the S inputs are to be protected and laid separately to 0V/+24V.
- 17) When connecting potential-free contacts to inputs S22, S12, a fuse is to be interposed in accordance with DIN EN 50156-1. Note the operating instructions of the connected components.

Report Number: 231-72119363-000

2016-10-11

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