



America

# CERTIFICATE

No. U8 11 05 22795 095

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

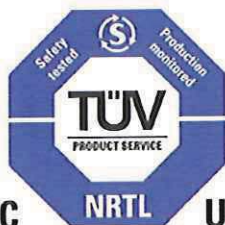
Liebigstrasse 4  
82256 Fürstenfeldbruck  
GERMANY

Production

70507

Facility(ies):

Certification Mark:



Product:

**C NRTL US**  
**Electro-Sensitive Protective Equipment**  
**(Safety Light Curtains)**

Model(s):

Type: **MLD X yy-z a b**  
(see attachment for specific model information)

Parameters:

Rated Input Voltage: 24 Vdc ± 20%  
Rated Input Current: 50 mA (Transmitter)  
150 mA (Receiver)  
Protection Class: III  
Laser Class: Class 2  
Temperature, Ambient: 55°C

Tested according to:

UL 508/R:2005-07  
CAN/CSA C22.2 NO. 14:2005  
Supplemented by:  
CAN/CSA-E61496-1:2004, CAN/CSA-E61496-2:2004,  
UL 61496-1/R:2007-02, UL 61496-2/R:2007-02,  
IEC 61508 part 1, 3, 4:1998 (SIL3),  
IEC 61508 part 2:2000 (SIL3),  
IEC 61496-1:2008 Ed. 2.1,  
IEC 61496-2:2006 Ed. 2  
EN ISO 13849 part 1:2006 (PL e, Cat. 4),  
EN ISO 13849 part 2:2003 (PL e, Cat. 4)  
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.:

231-1004783-100

Date, 2011-05-11

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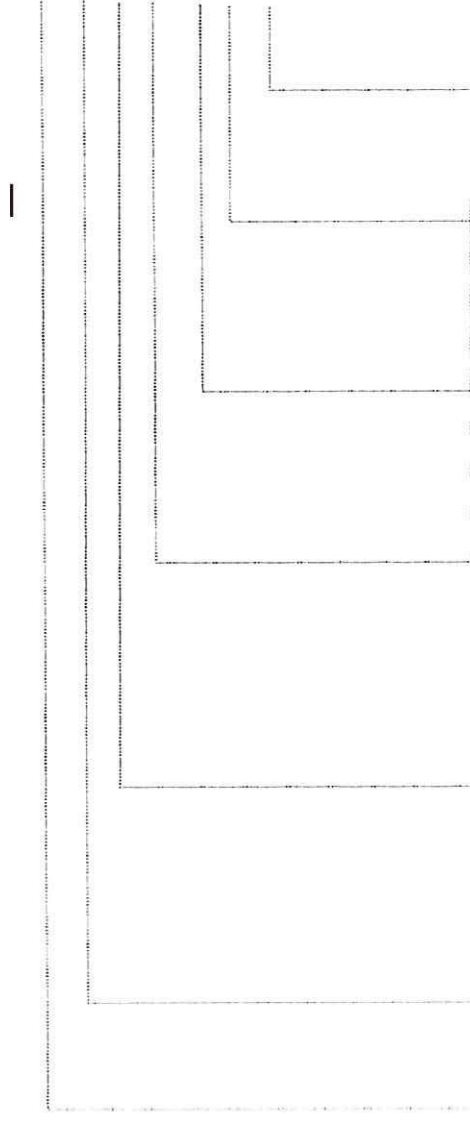
# Attachment to Certificate No. U8 11 05 22795 095 for Leuze electronic GmbH + Co. KG



America

## Nomenclature of MLD MLD (Multiple Light Beam Safety Device)

MLD X yy-z a b /t



**/t – Connection**  
 - OSSD, M12-Connector  
 A: Integrated AS-i-Interface, M12-Connector

**b – Option**  
 L: integrated laser alignment aid  
 M: integrated muting indicator  
 E: connector for external muting-lamp  
 (AS-i-Version) only

**a – Number of beams**

1	1 beam
2	2 beams
3	3 beams
4	4 beams

**z – Type of device**

T	Transmitter
R	Receiver
RT	Transceiver
XT	Transmitter with extended range
XR	Receiver with extended range
M	Deflecting mirror

**yy – Function variant**

00	Transmitter
10	Automatic start/restart
12	Periodic external function test
20	Start/Restart interlock / EDM
30	Start/Restart interlock / EDM / Muting
35	4-Sensor Sequential Muting

**X – Type of device**  
 3: MLD 300  
 5: MLD 500

MLD

**CONDITIONS OF ACCEPTABILITY:**

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

- 1) An approved “NEC Class 2 Power Supply” must be used with this equipment.