



Figure can vary




**Part no.: 426354**  
**MLD500-T3-UDC-1300-S2-P**  
**Safety sensor/transmitter set**



## Contents

- Set consists of
- Technical data
- Electrical connection
- Operation and display
- Accessories

## Set consists of

	Quantity	Part no.	Designation	Article	Description
	1	66501200	MLD500-T3	Multiple light beam safety device transmitter	Operating range: 0.5 ... 50 m Number of beams: 3 Piece(s) Beam spacing: 400 mm Connection: Connector, M12, Metal, 5 -pin
	1	426187	PSC-1300-S2	Protective screen	Material: PMMA, gray
	1	549852	UDC-1300-S2	Device column	Dimensions: 160 mm x 1,360 mm x 149 mm Column height without foot: 1,300 mm Functions: Mounting and protection of light curtains and multiple light beam devices, Adjustable, 3 directions

## Technical data

### Basic data

Series	MLD-UDC
Device type	Transmitter

### Special design

Special design	Protective screen
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### Functions

Functions	Range reduction
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### Characteristic parameters

Type	4 , IEC/EN 61496
SIL	3 , IEC 61508
SILCL	3 , IEC/EN 62061
MTTF <sub>d</sub>	204 years , EN ISO 13849-1
Mission time T <sub>M</sub>	20 years , EN ISO 13849-1
Category	4 , EN ISO 13849

### Protective field data

Operating range	0.5 ... 50 m
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### Optical data

Number of beams	3 Piece(s)
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Beam spacing	400 mm
Light source	LED , Infrared
LED light wavelength	850 nm
Mean power of transmitter diode	1,369 µW
Transmitted-signal shape	Pulsed
LED group	Exempt group in acc. with EN 62471:2008

**Electrical data**

Protective circuit	Overvoltage protection Short circuit protected
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**Performance data**

Supply voltage U <sub>B</sub>	24 V , DC , -20 ... 20 %
Current consumption, max.	50 mA , Without external load
Fuse	External with max. 3 A

**Connection**

Number of connections	1 Piece(s)
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**Connection 1**

Type of connection	Connector
Function	Machine interface
Thread size	M12
Material	Metal
No. of pins	5 -pin

**Cable properties**

Permissible conductor cross section, typ.	0.25 mm <sup>2</sup>
Length of connection cable, max.	100 m
Permissible cable resistance to load, max.	200 Ω

**Mechanical data**

Dimension (W x H x L)	160 mm x 1,360 mm x 149 mm
Housing material	Metal , Aluminum
Lens cover material	Plastic / PMMA
Material of end caps	Diecast zinc
Housing color	Yellow, RAL 1021
Type of fastening	Groove mounting Swivel mount
With device column	Yes
Column height without foot	1,300 mm

**Operation and display**

Type of display	LED
Number of LEDs	3 Piece(s)

**Environmental data**

Ambient temperature, operation	-30 ... 55 °C
Ambient temperature, storage	-40 ... 75 °C
Relative humidity (non-condensing)	0 ... 95 %

**Certifications**

Degree of protection	IP 67
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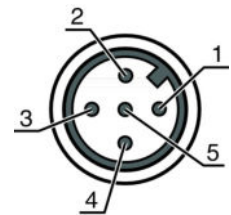
Protection class	III
Certifications	c CSA US c TÜV NRTL US TÜV Süd
US patents	US 6,418,546 B US 7,741,595 B

Classification	
Customs tariff number	85365019
eCl@ss 8.0	27272703
eCl@ss 9.0	27272703
ETIM 5.0	EC001832
ETIM 6.0	EC001832

## Electrical connection

Connection 1	
Type of connection	Connector
Function	Machine interface
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin	Pin assignment	Conductor color
1	+24V	Brown
2	n.c.	White
3	0 V	Blue
4	n.c.	Black
5	n.c.	Gray




## Operation and display

### LEDs

LEDs per light axis	Meaning
Green, continuous light	Transmitted beam active
Off	Transmitted beam not active



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## Suitable receivers

	Part no.	Designation	Article	Description
	426435	MLD510-R3-UDC-1300-S2-P	Safety sensor/ receiver set	Special design: Protective screen Beam spacing: 400 mm

## Accessories

### Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50133860	KD S-M12-5A- P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	50133861	KD S-M12-5A- P1-100	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR

#### Note

A list with all available accessories can be found on the Leuze electronic website in the Download tab of the article detailed page.