



the sensor people





Figure can vary

Part no.: 66001500 MLD300-XT2 Multiple light beam safety device transmitter











# **Contents**

- Technical data
- Suitable receivers
- Dimensioned drawings
- Electrical connection
- Operation and display
- · Part number code
- Accessories



### **Technical data**

Series         MLD 300           Device type         Transmitter           Functions           Range reduction           Characteristic parameters           Type         2, IEC/EN 61496           SIL         1, IEC 61508           SILCL         1, IEC/EN 62061           MTTFd         204 years, EN ISO 13849-1           Mission time TM         20 years, EN ISO 13849-1           Protective field data           Operating range         20 70 m           Optical data         Vinitial color of beams         2 Piece(s)           Beam spacing         500 mm           Light source         LED, Infrared           LED light wavelength         850 nm           Mean power of transmitter diode         1.369 µW           Transmitted-signal shape         Pulsed	Paris data	
Protective type	Basic data	MILD 000
Functions   Range reduction		
Purctions	Device type	Transmitter
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Characteristic parameters		
Type         2, IEC/EN 61496           SIL         1, IEC 61508           MTTFd         204 years, EN ISO 13849-1           MISsion time TM         20 years, EN ISO 13849-1           Protective field data           Operating range         20 70 m           Optical data           Number of beams         2 Piece(s)           Beam spacing         500 mm           Light source         LED, Infrared           LED light wavelength         850 nm           Mean power of transmitter diode         1.369 µW           Transmitted-signal shape         Pulsed           LED group         1           Electrical data           Protective circuit         Overvoltage protection           Short circuit protected         Performance data           Supply voltage UB         24 V, DC, -20 20 %           Current consumption, max.         50 mA, Without external load           Fuse         External with max. 3 A           Connection           Connection 1         Type of connection         Connector           Function         Machine interface           Thritead size         M12           Material         Metal           No.	Functions	Range reduction
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Beam spacing 500 mm  Light source LED, Infrared  LED light wavelength 850 nm  Mean power of transmitter diode 1.369 µW  Transmitted-signal shape Pulsed  LED group 1  Electrical data  Protective circuit Overvoltage protection Short circuit protected  Supply voltage UB 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)  Connection 1  Type of connection Machine interface  Function Machine interface  Material Metal  No. of pins 5-pin  Cable properties  Permissible conductor cross section, typ. 0.25 mm²  Length of connection cable, max. 100 m	Optical data	
LED, Infrared  LED, Infrared  LED, Infrared  LED, Infrared  850 nm  Mean power of transmitter diode  1.369 μW  Transmitted-signal shape  Pulsed  LED group  1  Electrical data  Protective circuit  Supply voltage UB  Current consumption, max.  Fuse  External with max. 3 A  Connection  Number of connections  1 Piece(s)  Connection  Type of connection  Function  Machine Interface  Material  Metal  No. of pins  Cable properties  Permissible conductor cross section, typ.  Length of connection cable, max.  LED, Infrared  850 nm  Overvoltage μΘ  Overvoltage protection  Sourrol toque  Avious Connection  Sourrol toque  1 Piece(s)  Connection  Connector  Function  Machine Interface  Metal  No. of pins  5 - pin  Cable properties  Permissible conductor cross section, typ.  0.25 mm²  Length of connection cable, max.  100 m	Number of beams	2 Piece(s)
LED light wavelength  Mean power of transmitter diode  Transmitted-signal shape  LED group  1  Electrical data  Protective circuit  Supply voltage UB  Current consumption, max.  Fuse  External with max. 3 A   Connection  Number of connections  1 Piece(s)  Connection  Type of connection  Function  Function  Machine interface  Material  No. of pins  5 -pin  Cable properties  Permissible conductor cross section, typ.  LED group  1 1  1 1,089 µW  Pulsed  Lase Pulsed  Pulsed  Pulsed  Overvoltage protection Short circuit protected  Overvoltage protection Short circuit protected  Performance data Supply voltage UB 24 V, DC, -20 20 % External with max. 3 A  External with max. 3 A  Connection  1 Piece(s)  Connection  Machine interface  M12  Material  Metal  No. of pins  5 -pin  Cable properties  Permissible conductor cross section, typ.  0.25 mm² Length of connection cable, max.  100 m	Beam spacing	500 mm
Mean power of transmitter diode  Transmitted-signal shape  Pulsed  LED group  1  Electrical data  Protective circuit  Overvoltage protection Short circuit protected  Performance data Supply voltage UB  Current consumption, max.  50 mA, Without external load  External with max. 3 A   Connection  Number of connections  1 Piece(s)  Connection  Type of connection  Connection  Machine interface Thread size M12  Material No. of pins  5 -pin  Cable properties  Permissible conductor cross section, typ. Length of connection cable, max.  100 m	Light source	LED, Infrared
Transmitted-signal shape  LED group  1  Electrical data  Protective circuit  Overvoltage protection Short circuit protected  Performance data Supply voltage UB  Current consumption, max. 50 mA, Without external load Fuse  External with max. 3 A   Connection  Number of connections  1 Piece(s)  Connection  Type of connection  Connection  Machine interface Thread size M12 Material No. of pins 5 - pin  Cable properties Permissible conductor cross section, typ. Length of connection cable, max. 100 m	LED light wavelength	850 nm
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Supply voltage UB  Current consumption, max.  50 mA, Without external load  External with max. 3 A   Connection  Number of connections  1 Piece(s)  Connection 1  Type of connection  Function  Machine interface  Thread size  M12  Material  No. of pins  Cable properties  Permissible conductor cross section, typ.  Length of connection cable, max.  50 mA, Without external load  External with max. 3 A   Connection  1 Piece(s)  Connector  Machine interface  M12  Metal  No. of pins  5 -pin  Cable properties  Permissible conductor cross section, typ.  0.25 mm²  Length of connection cable, max.	Protective circuit	Overvoltage protection Short circuit protected
Current consumption, max.  Fuse  External with max. 3 A   Connection  Number of connections  1 Piece(s)  Connection 1  Type of connection  Function  Machine interface  Thread size  M12  Material  Metal  No. of pins  Cable properties  Permissible conductor cross section, typ.  Length of connection cable, max.  50 mA, Without external load  External with max. 3 A  50 mA, Without external load  External with max. 3 A  1 Piece(s)  Connection  Machine interface  M12  Metal  No. of pins  5 -pin  Cable properties  Permissible conductor cross section, typ.  0.25 mm²  Length of connection cable, max.	Performance data	
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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 mm²       Length of connection cable, max.     100 m		
Type of connection  Connector  Function  Machine interface  Thread size  M12  Material  Metal  No. of pins  5 -pin   Cable properties  Permissible conductor cross section, typ.  Length of connection cable, max.  Connector  Machine interface  M12  Metal  No. 0 pins  5 -pin  100 m		1 Piece(s)
Function Machine interface  Thread size M12  Material Metal  No. of pins 5 -pin  Cable properties  Permissible conductor cross section, typ. 0.25 mm²  Length of connection cable, max. 100 m		
Thread size M12  Material Metal  No. of pins 5 -pin  Cable properties  Permissible conductor cross section, typ. 0.25 mm²  Length of connection cable, max. 100 m		
MaterialMetalNo. of pins5 -pinCable propertiesPermissible conductor cross section, typ.0.25 mm²Length of connection cable, max.100 m		
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Cable properties       Permissible conductor cross section, typ.     0.25 mm²       Length of connection cable, max.     100 m		
Permissible conductor cross section, typ.  0.25 mm²  Length of connection cable, max.  100 m		5 -pin
Length of connection cable, max. 100 m		
Permissible cable resistance to load, max. 200 Ω		
	Permissible cable resistance to load, max.	200 Ω



Mechanical data		
Dimension (W x H x L)	52 mm x 600 mm x 64.7 mm	
Housing material	Metal, Aluminum	
Lens cover material	Plastic / PMMA	
Material of end caps	Diecast zinc	
Net weight	1,400 g	
Housing color	Yellow, RAL 1021	
Type of fastening	Groove mounting Swivel mount	

Operation and display	
Type of display	LED
Number of LEDs	2 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	
Protection class	III	
Certifications	c TÜV NRTL US c CSA US TÜV Süd	
US patents	US 7,741,595 B US 6,418,546 B	

Classification	
eCl@ss 8.0	27272703
eCl@ss 9.0	27272703
ETIM 5.0	EC001832

#### Suitable receivers

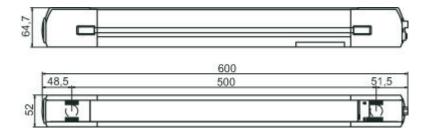
Part no.	Designation	Article	Description
66033500	MLD310-XR2	Multiple light beam safety device receiver	Number of beams: 2 Piece(s) Beam spacing: 500 mm Response time: 25 ms Connection: Connector, M12, Metal, 5 -pin
66043500	MLD312-XR2	Multiple light beam safety device receiver	Number of beams: 2 Piece(s) Beam spacing: 500 mm Response time: 25 ms Connection: Connector, M12, Metal, 5 -pin



	Part no.	Designation	Article	Description
and the second	66053500	MLD320-XR2	Multiple light beam safety device receiver	Number of beams: 2 Piece(s) Beam spacing: 500 mm Response time: 25 ms Connection: Connector, M12, Metal, 8 -pin
Company or	66063500	MLD330-XR2	Multiple light beam safety device receiver	Number of beams: 2 Piece(s) Beam spacing: 500 mm Response time: 50 ms Connection: Connector, M12, Metal, 8 -pin
Table 1	66073500	MLD335-XR2	Multiple light beam safety device receiver	Number of beams: 2 Piece(s) Beam spacing: 500 mm Response time: 50 ms Connection: Connector, M12, Metal, 8 -pin
THE PARTY OF THE P	66054500	MLD320-XR2M	Multiple light beam safety device receiver	Number of beams: 2 Piece(s) Beam spacing: 500 mm Response time: 25 ms Connection: Connector, M12, Metal, 8 -pin Special design: Integrated status indicator

### **Dimensioned drawings**

All dimensions in millimeters

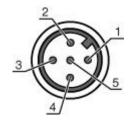


#### **Electrical connection**

Connection 1	
Type of connection	Connector
Function	Machine interface
Thread size	M12
Туре	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

#### Part number code

Part designation: MLDxyy-zab/t

MLD	Multiple light beam safety device
х	Series: 3: MLD 300 5: MLD 500
уу	Function classes: 00: Transmitter 10: automatic restart 12: external testing 20: EDM/RES 30: muting 35: timing controlled 4-sensor muting
Z	Device type: T: transmitter R: receiver RT: transceiver xT: transmitter with high range xR: receiver for high range
а	Number of beams
b	Option: L: integrated laser alignment aid (for transmitter/receiver) M: integrated status indicator (MLD 320, MLD 520) or integrated status and muting indicator (MLD 330, MLD 335, MLD 510/A, MLD 530, MLD 535) E: connection socket for external muting indicator (AS-i models only)
/t	Safety-related switching outputs (OSSDs), connection technology: -: transistor output, M12 plug A: integrated AS-i interface, M12 plug, (safety bus system)



#### **Accessories**

### Connection technology - Connection cables

Part no.	Designation	Article	Description
678058	CB- M12-25000E-5GF	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5-pin Connection 2: Open end Shielded: Yes Cable length: 25,000 mm Sheathing material: PUR
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
50137014	KD S-M12-5A- P1-150	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: PVC
50137013	KD S-M12-5A- P1-500	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: PVC

## Mounting technology - Swivel mounts

Part no.	Designation	Article	Description
560340	BT-SET-240BC	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 240° Material: Metal
540350	BT-SET-240BC-E	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 240° Material: Metal, Plastic
560342	BT-SET-240BCS	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 240°, Shock absorber Material: Metal Shock absorber: Yes
540352	BT-SET-240BCS-E	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Shock absorber, Turning, 240° Material: Metal, Plastic Shock absorber: Yes



### Mounting technology - Other

	Part no.	Designation	Article	Description
W. E.	424417	BT-2P40	Mounting bracket set	Contains: 2x BT-P40 clamp bracket Design of mounting device: Mounting clamp Fastening, at system: Groove mounting Mounting bracket, at device: Groove mounting Type of mounting device: Clampable Material: Metal

### Device columns

	Part no.	Designation	Article	Description
25	549856	UDC-1000-S2	Device column	Dimensions: 160 mm x 1,060 mm x 149 mm Column height without foot: 1,000 mm Functions: Mounting and protection of light curtains and multiple light beam devices, Adjustable, 3 directions
8	549879	UDC-1140-S2	Device column	Dimensions: 160 mm x 1,200 mm x 149 mm Column height without foot: 1,140 mm Functions: Adjustable, 3 directions, Mounting and protection of light curtains and multiple light beam devices
5	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
ž	549853	UDC-1600-S2	Device column	Dimensions: 160 mm x 1,660 mm x 149 mm Column height without foot: 1,600 mm Functions: Mounting and protection of light curtains and multiple light beam devices, Adjustable, 3 directions
	549854	UDC-1900-S2	Device column	Dimensions: 160 mm x 1,960 mm x 149 mm Column height without foot: 1,900 mm Functions: Mounting and protection of light curtains and multiple light beam devices, Adjustable, 3 directions
i i i i i i i i i i i i i i i i i i i	549867	UDC-2100-S2	Device column	Dimensions: 160 mm x 2,160 mm x 149 mm Column height without foot: 2,100 mm Functions: Adjustable, 3 directions, Mounting and protection of light curtains and multiple light beam devices
at .	549857	UDC-2500-S2	Device column	Dimensions: 160 mm x 2,560 mm x 149 mm Column height without foot: 2,500 mm Functions: Adjustable, 3 directions, Mounting and protection of light curtains and multiple light beam devices



	Part no.	Designation	Article	Description
	549865	UDC-3100-S2	Device column	Dimensions: 160 mm x 3,160 mm x 149 mm Column height without foot: 3,100 mm Functions: Mounting and protection of light curtains and multiple light beam devices, Adjustable, 3 directions
23	549855	UDC-900-S2	Device column	Dimensions: 160 mm x 960 mm x 149 mm Column height without foot: 900 mm Functions: Mounting and protection of light curtains and multiple light beam devices, Adjustable, 3 directions

### Deflecting mirror columns

	Part no.	Designation	Article	Description
1 2	549791	UMC-1002-S2	Mirror column	Number of individual mirrors: 2 Piece(s) Dimensions: 160 mm x 1,060 mm x 149 mm Column height without foot: 1,000 mm Center-to-center spacing of individual mirrors: 500 mm Functions: Easy axial alignment, Simple height adjustment of the mirrors, Automatic resetting after mechanical impacts with special spring elements, Adjustable, 3 directions, Robust profile construction in high quality design, Precise alignment of the individual mirrors in all 3 axes
0 2	549790	UMC-902-S2	Mirror column	Number of individual mirrors: 2 Piece(s) Dimensions: 160 mm x 960 mm x 149 mm Column height without foot: 900 mm Center-to-center spacing of individual mirrors: 500 mm Functions: Easy axial alignment, Simple height adjustment of the mirrors, Automatic resetting after mechanical impacts with special spring elements, Adjustable, 3 directions, Robust profile construction in high quality design, Precise alignment of the individual mirrors in all 3 axes