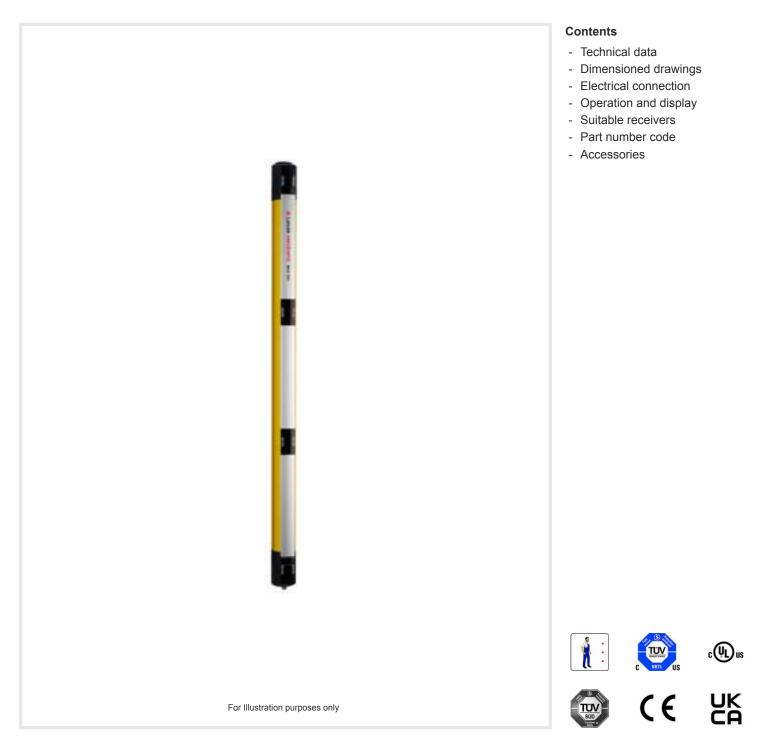


Technical data sheet Multiple light beam safety device transmitter Part no.: 66001700

MLD300-XT4



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We reserve the right to make technical

Technical data

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Basic data

Series	MLD 300
Device type	Transmitter
Functions	

Functions	Range reduction
Integrated laser alignment aid	No

Characteristic parameters

Туре	2, IEC/EN 61496
SIL	1, IEC 61508
SILCL	1, IEC/EN 62061
MTTF _d	204 years, EN ISO 13849-1
Mission time T _M	20 years, EN ISO 13849-1

20 ... 70 m

Protective field data

Operating	range
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Optical data

Number of beams	4 Piece(s)
Beam spacing	300 mm
Light source	LED, Infrared
Wavelength	850 nm
Mean power of transmitter diode	1.369 μW
Transmitted-signal shape	Pulsed
LED group	1

Electrical data

load, max.

Protective circuit		Overvoltage protection
		Short circuit protected
	Performance data	
	Supply voltage U _B	24 V, DC, -20 20 %
	Current consumption, max.	50 mA, Without external load
	Fuse	External with max. 3 A
С	onnection	
Number of connections		1 Piece(s)
	Connection 1	
	Function	Machine interface
	Type of connection	Connector
	Thread size	M12
	Material	Metal
	No. of pins	5 -pin
	Cable properties	
	Permissible conductor cross section, type.	0.25 mm ²
	Length of connection cable, max.	100 m
	Permissible cable resistance to	200 Ω

Dimension (W x H x L) 52 mm x 1,000 mm x 64.7 mm Housing material Metal Metal housing Aluminum Lens cover material Plastic / PMMA Material of end caps Diecast zinc Net weight 2,200 g Housing color Yellow, RAL 1021 Type of fastening Groove mounting Swivel mount **Operation and display** Type of display LED Number of LEDs 4 Piece(s) **Environmental data** Ambient temperature, operation -30 ... 55 °C Ambient temperature, storage -40 ... 75 °C Relative humidity (non-condensing) 0 ... 95 % Certifications IP 67 Degree of protection **Protection class** Ш c TÜV NRTL US Approvals c UL US TÜV Süd US patents US 6,418,546 B US 7,741,595 B Classification Customs tariff number 85365019 ECLASS 5.1.4 27272703 ECLASS 8.0 27272703 ECLASS 9.0 27272703 ECLASS 10.0 27272703 ECLASS 12.0 27272703 ECLASS 13.0 27272703 ECLASS 14.0 27272703 ECLASS 15.0 27272703 **ETIM 5.0** EC001832 **ETIM 6.0** EC001832 ETIM 7.0 EC001832 **ETIM 8.0** EC001832

EC001832

EC001832

Mechanical data

ETIM 9.0

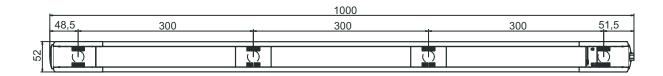
ETIM 10.0

Dimensioned drawings



All dimensions in millimeters





Electrical connection

Connection 1

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

Pin	Pin assignment	Conductor color	2
1	+24 V	Brown	
2	n.c.	White	
3	0 V	Blue	3
4	Transmitter range switching: 0 V = entire range, 24 V = reduced range	Black	
5	n.c.	Gray	4

Operation and display

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

Suitable receivers

Pa	art no.	Designation	Article	Description
66	6033700		safety device receiver	Number of beams: 4 Piece(s) Beam spacing: 300 mm Response time: 25 ms Connection: Connector, M12, Metal, 5 -pin

Suitable receivers

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Part no.	Designation	Article	Description
66043700	MLD312-XR4	Multiple light beam safety device receiver	Number of beams: 4 Piece(s) Beam spacing: 300 mm Response time: 25 ms Connection: Connector, M12, Metal, 5 -pin
66053700	MLD320-XR4	Multiple light beam safety device receiver	Number of beams: 4 Piece(s) Beam spacing: 300 mm Response time: 25 ms Connection: Connector, M12, Metal, 8 -pin
66054700	MLD320-XR4M	Multiple light beam safety device receiver	Special version: Integrated status indicator Number of beams: 4 Piece(s) Beam spacing: 300 mm Response time: 25 ms Connection: Connector, M12, Metal, 8 -pin
66063700	MLD330-XR4	Multiple light beam safety device receiver	Number of beams: 4 Piece(s) Beam spacing: 300 mm Response time: 50 ms Connection: Connector, M12, Metal, 8 -pin
66073700	MLD335-XR4	Multiple light beam safety device receiver	Number of beams: 4 Piece(s) Beam spacing: 300 mm Response time: 50 ms Connection: Connector, M12, Metal, 8 -pin

Part number code

Part designation: MLDxyy-zab/t

MLD	Multiple light beam safety device
x	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

Part number code

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MLD	Multiple light beam safety device
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)
	Note
1	♣ A list with all available device types can be found on the Leuze website at www.leuze.com.

Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50133859	KD S-M12-5A-P1-020	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 2.000 mm Sheathing material: PUR
	50133860	KD S-M12-5A-P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR
	50136146	KD S-M12-5A-P1-250	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 25.000 mm Sheathing material: PUR

Alignment aids

 Part no.	Designation	Article	Description
520023	LA-78M	Alignment aid	Light source: Laser, Red Housing material: Metal

Accessories

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 Part no.	Designation	Article	Description
520024	LA-78M-UDC	Alignment aid	Light source: Laser, Red Housing material: Metal

Services

	Part no.	Designation	Article	Description
\bigcirc	S981050	CS40-I-140	Safety inspection	Details: Checking of a safety light barrier application in accordance with current standards and guidelines. Inclusion of the device and machine data in a database, production of a test log per application. Conditions: It must be possible to stop the machine, support provided by customer's employees and access to the machine for Leuze employees must be ensured.
	S981046	CS40-S-140	Start-up support	Details: For safety devices including stopping time measurement and initial inspection. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses.

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