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Part no.: 66002600 MLD300-XT3L Multiple light beam safety device transmitter



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Contents

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

Part no.: 66002600 – MLD300-XT3L – Multiple light beam safety device

Technical data

Desite data				
Basic data				
Series	MLD 300			
Device type	Transmitter			
Special design				
Special design	Integrated laser alignment aid			
Functions				
Functions	Range reduction			
Characteristic parameters				
Туре	2 , IEC/EN 61496			
SIL	1 , IEC 61508			
SILCL	1 , IEC/EN 62061			
MTTFd	204 years , EN ISO 13849-1			
Mission time T_{M}	20 years , EN ISO 13849-1			
Protective field data				
Operating range	20 70 m			
Optical data				
Number of beams	3 Piece(s)			
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	1			
Electrical data				
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			
Connection				
Number of connections	1 Piece(s)			
Connection 1				
Type of connection	Connector			
Function	Machine interface			
Thread size	M12			
Material	Metal			
No. of pins	5 -pin			
	~ h			

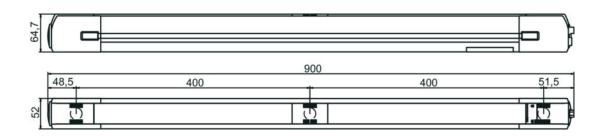
Part no.: 66002600 – MLD300-XT3L – Multiple light beam safety device

0.25 mm ²
100 m
200 Ω
52 mm x 900 mm x 64.7 mm
Metal, Aluminum
Plastic / PMMA
Diecast zinc
2,000 g
Yellow, RAL 1021
Groove mounting Swivel mount
LED
3 Piece(s)
-30 55 °C
-40 75 °C
0 95 %
IP 67
III
c CSA US c TÜV NRTL US TÜV Süd
US 6,418,546 B US 7,741,595 B
85365019
27272703
27272703
27272703 EC001832

Dimensioned drawings

All dimensions in millimeters

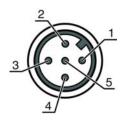
Part no.: 66002600 – MLD300-XT3L – Multiple light beam safety device



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	

Suitable receivers

Part no.	Designation	Article	Description
66036600	MLD310-XR3L	Multiple light beam safety device receiver	Number of beams: 3 Piece(s) Beam spacing: 400 mm Response time: 25 ms Connection: Connector, M12, Metal, 5 -pin Special design: Reflective element for laser alignment aid

Part no.: 66002600 – MLD300-XT3L – Multiple light beam safety device

Part no.	Designation	Article	Description
66046600	MLD312-XR3L	Multiple light beam safety device receiver	Number of beams: 3 Piece(s) Beam spacing: 400 mm Response time: 25 ms Connection: Connector, M12, Metal, 5 -pin Special design: Reflective element for laser alignment aid
66056600	MLD320-XR3L	Multiple light beam safety device receiver	Number of beams: 3 Piece(s) Beam spacing: 400 mm Response time: 25 ms Connection: Connector, M12, Metal, 8 -pin Special design: Reflective element for laser alignment aid
66066600	MLD330-XR3L	Multiple light beam safety device receiver	Number of beams: 3 Piece(s) Beam spacing: 400 mm Response time: 50 ms Connection: Connector, M12, Metal, 8 -pin Special design: Reflective element for laser alignment aid
66076600	MLD335-XR3L	Multiple light beam safety device receiver	Number of beams: 3 Piece(s) Beam spacing: 400 mm Response time: 50 ms Connection: Connector, M12, Metal, 8 -pin Special design: Reflective element for laser alignment aid
66055600	MLD320-XR3LM	Multiple light beam safety device receiver	Number of beams: 3 Piece(s) Beam spacing: 400 mm Response time: 25 ms Connection: Connector, M12, Metal, 8 -pin Special design: Integrated status indicator, Reflective element for laser alignment aid

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
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)

Part no.: 66002600 – MLD300-XT3L – Multiple light beam safety device

Note

A list with all available device types can be found on the Leuze electronic 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 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 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 Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PVC

Services

	Part no.	Designation	Article	Description
()	S981050	CS40-I-140	Safety inspection "Safety light barriers"	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. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.
	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. Restrictions: Max. 2 h., no mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment.

Note

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