



the sensor people





Part no.: 68006315 MLC500T30-1500/A Safety light curtain transmitter















Figure can vary

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- Dimensioned drawings
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Technical data

All O FOO		
MLC 500		
Transmitter		
2x BT-NC sliding block		
Hand protection		
4 , IEC/EN 61496		
3 , IEC 61508		
3 , IEC/EN 62061		
20 years , EN ISO 13849-1		
30 mm		
1,500 mm		
0 10 m		
Optical between transmitter and receiver		
LED , Infrared		
940 nm		
Pulsed		
Exempt group in acc. with EN 62471:2008		
Overvoltage protection Short circuit protected		
Overvoltage protection Short circuit protected		
Overvoltage protection Short circuit protected 26.5 31.6 V		
Short circuit protected		
Short circuit protected 26.5 31.6 V		
Short circuit protected 26.5 31.6 V		
Short circuit protected 26.5 31.6 V 50 mA		
Short circuit protected 26.5 31.6 V 50 mA		
Short circuit protected 26.5 31.6 V 50 mA 1 Piece(s)		
Short circuit protected 26.5 31.6 V 50 mA 1 Piece(s) Digital switching input		
Short circuit protected 26.5 31.6 V 50 mA 1 Piece(s) Digital switching input 18 V		
Short circuit protected 26.5 31.6 V 50 mA 1 Piece(s) Digital switching input 18 V 2.5 V		
Short circuit protected 26.5 31.6 V 50 mA 1 Piece(s) Digital switching input 18 V 2.5 V 22.5 V		
Short circuit protected 26.5 31.6 V 50 mA 1 Piece(s) Digital switching input 18 V 2.5 V 22.5 V		
Short circuit protected 26.5 31.6 V 50 mA 1 Piece(s) Digital switching input 18 V 2.5 V 22.5 V		
Short circuit protected 26.5 31.6 V 50 mA 1 Piece(s) Digital switching input 18 V 2.5 V 22.5 V DC		
Short circuit protected 26.5 31.6 V 50 mA 1 Piece(s) Digital switching input 18 V 2.5 V 22.5 V DC		
Short circuit protected 26.5 31.6 V 50 mA 1 Piece(s) Digital switching input 18 V 2.5 V 22.5 V DC AS-Interface Safety at Work		
Short circuit protected 26.5 31.6 V 50 mA 1 Piece(s) Digital switching input 18 V 2.5 V 22.5 V DC AS-Interface Safety at Work		



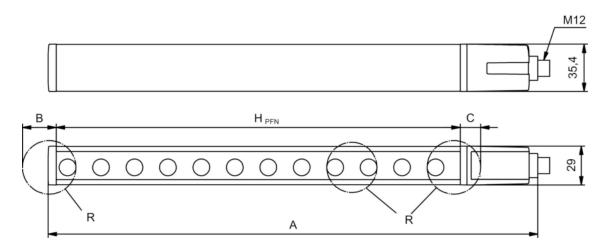
Number of connections	1 Piece(s)	
Connection 1		
Type of connection	Connector	
Function	Machine interface	
Thread size	M12	
Material	Metal	
No. of pins	5 -pin	
Cable properties		
Permissible conductor cross section, typ.	0.25 mm²	
Length of connection cable, max.	100 m	
Permissible cable resistance to load, max.	200 Ω	
Mechanical data		
Dimension (W x H x L)	29 mm x 1,566 mm x 35.4 mm	
Housing material	Metal , Aluminum	
Lens cover material	Plastic / PMMA	
Material of end caps	Diecast zinc	
Net weight	1,650 g	
Housing color	Yellow, RAL 1021	
Type of fastening	Groove mounting Mounting bracket Mounting on Device Column Swivel mount	
Operation and display		
Type of display	LED	
Number of LEDs	2 Piece(s)	
Environmental data		
Ambient temperature, operation	0 55 °C	
Ambient temperature, operation Ambient temperature, storage	0 55 °C -30 70 °C	
Ambient temperature, storage	-30 70 °C	
Ambient temperature, storage Relative humidity (non-condensing)	-30 70 °C	
Ambient temperature, storage Relative humidity (non-condensing) Certifications	-30 70 °C 0 95 %	
Ambient temperature, storage Relative humidity (non-condensing) Certifications Degree of protection	-30 70 °C 0 95 % IP 65	
Ambient temperature, storage Relative humidity (non-condensing) Certifications Degree of protection Protection class	-30 70 °C 0 95 % IP 65 III c CSA US c TÜV NRTL US	
Ambient temperature, storage Relative humidity (non-condensing) Certifications Degree of protection Protection class Certifications	-30 70 °C 0 95 % IP 65 III c CSA US c TÜV NRTL US TÜV Süd	
Ambient temperature, storage Relative humidity (non-condensing) Certifications Degree of protection Protection class Certifications Vibration resistance	-30 70 °C 0 95 % IP 65 III c CSA US c TÜV NRTL US TÜV Süd 50 m/s²	
Ambient temperature, storage Relative humidity (non-condensing) Certifications Degree of protection Protection class Certifications Vibration resistance Shock resistance	-30 70 °C 0 95 % IP 65 III c CSA US c TÜV NRTL US TÜV Süd 50 m/s² 100 m/s²	
Ambient temperature, storage Relative humidity (non-condensing) Certifications Degree of protection Protection class Certifications Vibration resistance Shock resistance US patents	-30 70 °C 0 95 % IP 65 III c CSA US c TÜV NRTL US TÜV Süd 50 m/s² 100 m/s²	
Ambient temperature, storage Relative humidity (non-condensing) Certifications Degree of protection Protection class Certifications Vibration resistance Shock resistance US patents Classification	-30 70 °C 0 95 % IP 65 III c CSA US c TÜV NRTL US TÜV Süd 50 m/s² 100 m/s² US 6,418,546 B	
Ambient temperature, storage Relative humidity (non-condensing) Certifications Degree of protection Protection class Certifications Vibration resistance Shock resistance US patents Classification Customs tariff number	-30 70 °C 0 95 % IP 65 III c CSA US c TÜV NRTL US TÜV Süd 50 m/s² 100 m/s² US 6,418,546 B	
Ambient temperature, storage Relative humidity (non-condensing) Certifications Degree of protection Protection class Certifications Vibration resistance Shock resistance US patents Classification Customs tariff number eCl@ss 8.0	-30 70 °C 0 95 % IP 65 III c CSA US c TÜV NRTL US TÜV Süd 50 m/s² 100 m/s² US 6,418,546 B 85365019 27272704	



Dimensioned drawings

All dimensions in millimeters

Calculation of the effective protective field height HPFE = HPFN + B + C



HPFE Effective protective field height = 1528 mm

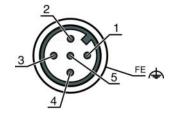
H_{PFN} Nominal protective field height = 1500 mm

- A Total height = 1566 mm
- B 19 mm
- C 9 mm
- R Effective protective field height HPFE goes beyond the dimensions of the optics area to the outer borders of the circles labeled with R.

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
1	AS-i+
2	n.c.
3	AS-i-
4	n.c.
5	n.c.



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Operation and display

LEDs

LED	Display	Meaning
1	Off	Device switched off
	Red, continuous light	Device error
	Green, continuous light	Normal operation

Suitable receivers

Part no.	Designation	Article	Description
68007315	MLC510R30-1500/ A	curtain receiver	Resolution: 30 mm Protective field height: 1,500 mm Response time: 14 ms Interface: AS-Interface Safety at Work Connection: Connector, M12, Metal, 5 -pin

Part number code

Part designation: MLCxyy-za-hhhhei-ooo

MLC	Safety light curtain					
х	Series: 3: MLC 300 5: MLC 500					
уу	Function classes: 00: transmitter 01: transmitter (AIDA) 02: transmitter with test input 10: basic receiver - automatic restart 11: basic receiver - automatic restart (AIDA) 20: standard receiver - EDM/RES selectable 30: extended receiver - blanking/muting					
Z	Device type: T: transmitter R: receiver					
а	Resolution: 14: 14 mm 20: 20 mm 30: 30 mm 40: 40 mm 90: 90 mm					
hhhh	Protective field height: 150 3000: from 150 mm to 3000 mm					
е	Host/Guest (optional): H: Host MG: Middle Guest G: Guest					
i	Interface (optional): /A: AS-i					
000	Option: //: high Vibration-proof EX2: explosion protection (zones 2 + 22) SPG: Smart Process Gating					

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A list with all available device types can be found on the Leuze electronic website at www.leuze.com.



Notes

Observe intended use!

- · The product may only be put into operation by competent persons.
- · Only use the product in accordance with its intended use.

Accessories

Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
P.C.	429393	BT-2HF	Mounting bracket set	Contains: 2x BT-HF swivel mount, 1 cylinder for mounting on the light curtain Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 360° Material: Metal, Plastic

Alignment aids

	Part no.	Designation	Article	Description
1	520101	AC-ALM-M	Alignment aid	Housing material: Plastic

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.