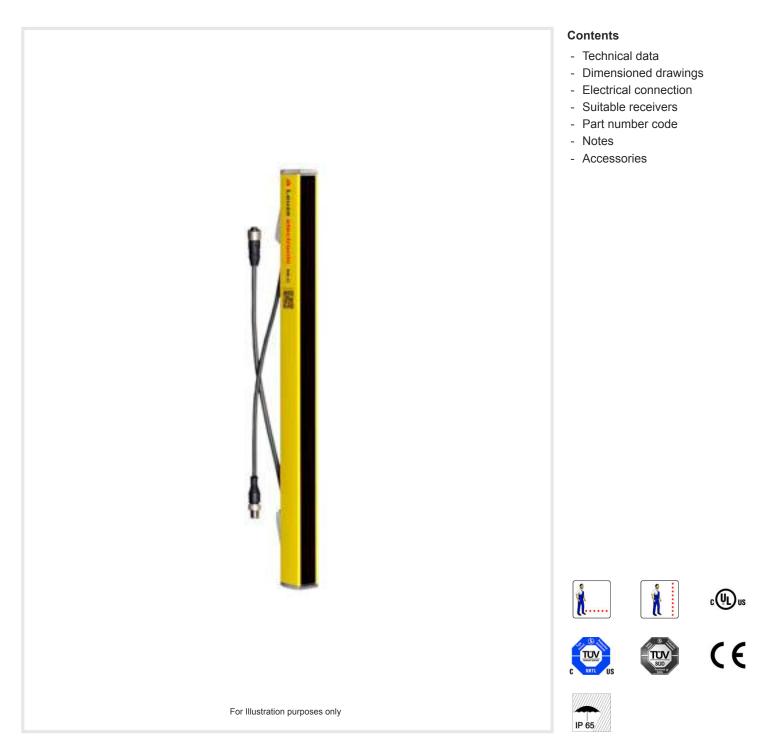


Technical data sheet Safety light curtain transmitter

Part no.: 68022915 MLC500T90-1500MG



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We reserve the right to make technical

Technical data

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Basic data

Series	MLC 500
Device type	Transmitter
Cascading	Middle Guest
Contains	2x BT-NC sliding block
Application	Access guarding
	Danger zone guarding

Characteristic parameters

Туре	4, IEC/EN 61496
SIL	3, IEC 61508
SILCL	3, IEC/EN 62061
Mission time T _M	20 years, EN ISO 13849-1

Protective field data

Resolution	90 mm
Protective field height	1,500 mm
Operating range	0 20 m

Optical data

Number of beams	20 Piece(s)	
Light source	LED, Infrared	
Wavelength	940 nm	
Transmitted-signal shape	Pulsed	
LED risk group	Exempt group (in acc. with EN 62471:2008)	

Connection

2 Piece(s)	
Cascade, Host In	
Cable with connector	
330 mm	
PUR	
M12	
Plastic	
8 -pin	
Cascade, Guest Out	
Cable with connector	
330 mm	
PUR	
M12	
Plastic	
8 -pin	

Mechanical data

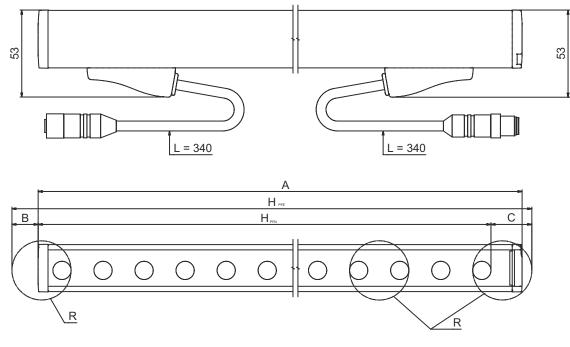
Dimension (W x H x L)	29 mm x 1,514 mm x 53 mm		
Housing material	Metal		
Metal housing	Aluminum		
Lens cover material	Plastic / PMMA		
Material of end caps	Diecast zinc		
Net weight	1,698 g		
Housing color	Yellow, RAL 1021		
Type of fastening	Groove mounting		
	Mounting brackets		
	Swivel mount		
Environmental data			
Ambient temperature, operation	0 55 °C		
Ambient temperature, storage	-30 70 °C		
Relative humidity (non-condensing)	0 95 %		
Certifications			
Degree of protection	IP 65		
Protection class	III		
Approvals	c TÜV NRTL US		
	c UL US		
	TÜV Süd		
Vibration resistance	50 m/s²		
Shock resistance	100 m/s²		
US patents	US 6,418,546 B		
Classification			
Customs tariff number	85365019		
ECLASS 5.1.4	27272704		
ECLASS 8.0	27272704		
ECLASS 9.0	27272704		
ECLASS 10.0	27272704		
ECLASS 11.0	27272704		
ECLASS 12.0	27272704		
ECLASS 13.0	27272704		
ECLASS 14.0	27272704		
ECLASS 15.0	27272704		
ETIM 5.0	EC002549		
ETIM 6.0	EC002549		
ETIM 7.0	EC002549		
ETIM 8.0	EC002549		
ETIM 9.0	EC002549		
ETIM 10.0	EC002549		

Dimensioned drawings

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All dimensions in millimeters

Calculation of the effective protective field height H_{PFE} = H_{PFN} + B + C



 $H_{\rm PFE}$ Effective protective field height = 1590 mm

- $\rm H_{\rm PFN}$ Nominal protective field height = 1500 mm
- A Total height = 1514 mm
- B 50 mm

C 40 mm

R Effective protective field height H_{PFE} goes beyond the dimensions of the optics area to the outer borders of the circles labeled with R.

Electrical connection

Connection 1

Cascade, Host In
Cable with connector
330 mm
PUR
Black
Pair stranding (twisted pair)
0.14 mm ²
M12
Male
Plastic
8 -pin
A-coded

Connection 2

Function	Cascade, Guest Out
Type of connection	Cable with connector
Cable length	330 mm
Sheathing material	PUR
Cable color	Black
Wire cross section	0.14 mm ²

Electrical connection

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Connection 2

Type of stranding	Pair stranding (twisted pair)
Thread size	M12
Туре	Female
Material	Plastic
No. of pins	8 -pin
Encoding	A-coded

Suitable receivers

	Part no.	Designation	Article	Description
Į.	68023915	MLC520R90- 1500MG	Safety light curtain receiver	Resolution: 90 mm Protective field height: 1,500 mm Response time: 5 ms Connection: Cable with connector, M12, Plastic, 8 -pin, 330 mm, PUR

Part number code

MLC	Safety light curtain
x	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 or gating 35: Extended receiver – Gating
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 /V: high Vibration-proof EX2: explosion protection (zones 2 + 22) SPG: Smart Process Gating SPG RR: Smart Process Gating – Reduced resolution
1	Note
A	& A list with all available device types can be found on the Leuze website at www.leuze.com.

Notes





Observe intended use!

Only use the product in accordance with its intended use.

Accessories

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	429278	CB-M12-2000E-8TP	Interconnection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 8 -pin Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
1111	429006	BT-2L-HG	Mounting device set	Mounting bracket, at device: Screw type Material: Metal

Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
P.Q.	429395	BT-2HF-G	Mounting bracket set	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
520101	AC-ALM-M	Alignment aid	Housing material: Plastic

Accessories

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Services

	Part no.	Designation	Article	Description
(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.
с. С.	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.