



the sensor people





Figure can vary

Part no.: 68021216 MLC520R20-1650G Safety light curtain receiver











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Technical data

Basic data		
Series	MLC 500	
Device type	Receiver	
Cascading	Guest	
Contains	2x BT-NC sliding block	
Application	Hand protection	
Characteristic parameters	1.150/51/04/00	
Туре	4 , IEC/EN 61496	
SIL	3 , IEC 61508	
SILCL	3 , IEC/EN 62061	
Performance Level (PL)	e , EN ISO 13849-1	
Mission time T _M	20 years , EN ISO 13849-1	
Category	4 , EN ISO 13849	
Protective field data		
Resolution	20 mm	
Protective field height	1,650 mm	
Optical data		
Number of beams	132 Piece(s)	
Timing		
Response time	28 ms	
Connection		
Number of connections	1 Piece(s)	
Connection 1		
Type of connection	Cable with connector	
Function	Cascade, Host In Cascade, Middle Guest In	
Cable length	330 mm	
Sheathing material	PUR	
Thread size	M12	
Material	Plastic	
No. of pins	8 -pin	
<u></u>	<u> </u>	
Mechanical data		
Dimension (W x H x L)	29 mm x 1,664 mm x 53 mm	
Housing material	Metal , Aluminum	
Lens cover material	Plastic / PMMA	
Material of end caps	Diecast zinc	
Net weight	1,773 g	
Housing color	Yellow, RAL 1021	
Type of fastening	Groove mounting Mounting bracket Swivel mount	



Environmental data		
Ambient temperature, operation	0 55 °C	
Ambient temperature, storage	-30 70 °C	
Relative humidity (non-condensing)	0 95 %	

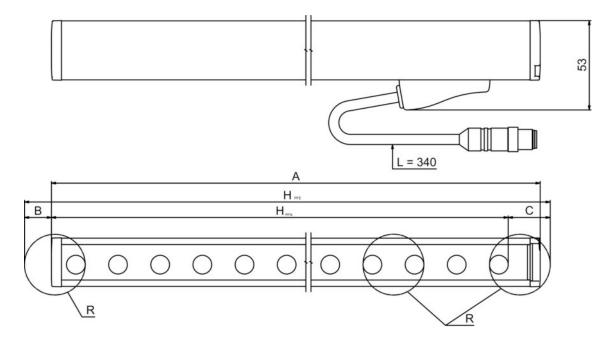
Certifications					
Degree of protection	IP 65				
Protection class	III				
Certifications	c CSA US c TÜV NRTL US TÜV Süd				
Vibration resistance	50 m/s²				
Shock resistance	100 m/s²				
US patents	US 6,418,546 B				

Classification		
Customs tariff number	85365019	
eCl@ss 8.0	27272704	
eCl@ss 9.0	27272704	
ETIM 5.0	EC002549	
ETIM 6.0	EC002549	

Dimensioned drawings

All dimensions in millimeters

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



HPFE Effective protective field height = 1667 mm HPFN Nominal protective field height = 1650 mm

- A Total height = 1664 mm
- B 7 mm
- C 10 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	Cable with connector			
Function	Cascade, Host In Cascade, Middle Guest In			
Cable length	330 mm			
Sheathing material	PUR			
Cable color	Black			
Type of stranding	Pair stranding (twisted pair)			
Wire cross section	0.14 mm ²			
Thread size	M12			
Туре	Male			
Material	Plastic			
No. of pins	8 -pin			
Encoding	A-coded A-coded			

Suitable transmitters

Part no.	Designation	Article	Description
68020216	MLC500T20-1650G		Resolution: 20 mm Protective field height: 1,650 mm Operating range: 0 15 m Connection: Cable with connector, M12, Plastic, 8 -pin, 330 mm, PUR

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



MLC	Safety light curtain
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

Note

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

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
429395	BT-2HF-G	Mounting bracket set	Contains: 2x BT-HF swivel mount, 2 cylinders 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

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.