SMART SENSOR BUSINESS

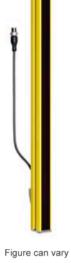
Leuze electronic

the sensor people



Part no.: 68021201 MLC520R20-150G Safety light curtain receiver





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Part no.: 68021201 – MLC520R20-150G – Safety light curtain receiver

Technical data

MLC 500
Receiver
Guest
2x BT-NC sliding block
Hand protection
4 , IEC/EN 61496
3, IEC 61508
3 , IEC/EN 62061
e , EN ISO 13849-1
20 years , EN ISO 13849-1
4 , EN ISO 13849
20 mm
150 mm
12 Piece(s)
3 ms
1 Piece(s)
Cable with connector
Cascade, Host In
Cascade, Middle Guest In
330 mm
PUR
M12
Plastic
8 -pin
29 mm x 164 mm x 53 mm
Metal , Aluminum
Plastic / PMMA
Diecast zinc
273 g
Yellow, RAL 1021
Groove mounting Mounting bracket Swivel mount

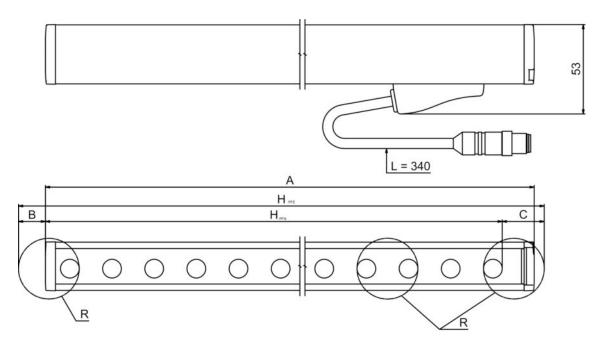
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Environmental data			
Ambient temperature, operation	0 55 °C		
Ambient temperature, storage	-30 70 °C		
Relative humidity (non-condensing)	0 95 %		
Certifications			
Degree of protection	IP 65		
Protection class	III		
Certifications	c CSA US c TÜV NRTL US TÜV Süd		
Vibration resistance	50 m/s²		
Shock resistance	100 m/s ²		
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 = 167 mm HPFN Nominal protective field height = 150 mm

- A Total height = 164 mm
- B 7 mm
- C 10 mm

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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		

Suitable transmitters

Part no.	Designation	Article	Description
68020201	MLC500T20-150G	Safety light curtain transmitter	Resolution: 20 mm Protective field height: 150 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
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
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

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MLC	Safety light curtain		
	Host/Guest (optional): H: Host MG: Middle Guest G: Guest		
	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

C	Deserve 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
	-		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

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Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
P.o.	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.