

Technical data sheet Safety light curtain receiver

Part no.: 68021202

MLC520R20-225G



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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

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
outegory	4, 214 100 10040

Protective field data

Resolution	20 mm
Protective field height	225 mm

Optical data

Number of beams	18 Piece(s)

Time behavior

Response time	4 ms, plus response times of the Host/
	Middle Guest devices

Connection

Number of connections	1 Piece(s)
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Connection 1	
Function	
Type of connection	

Cascade, Host In
Cascade, Middle Guest In
Cable with connector
330 mm
PUR
M12
Plastic
8 -pin

Mechanical data

Mechanical data	
Dimension (W x H x L)	29 mm x 239 mm x 53 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic / PMMA
Material of end caps	Diecast zinc
Net weight	348 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/s ²
US patents	US 6,418,546 B

Classification

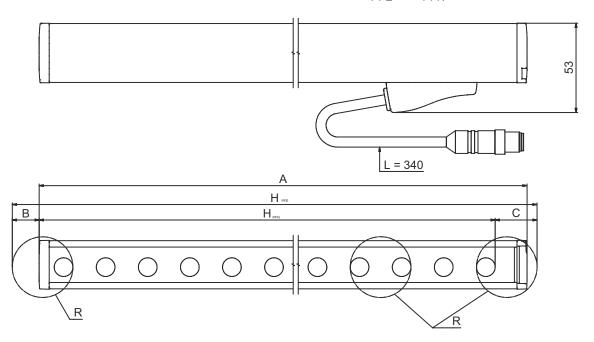
Customs tariff number	85365019
ECLASS 5.1.4	27272704
ECLASS 8.0	27272704
ECLASS 9.0	27272704
ECLASS 10.0	27272704
ECLASS 11.0	27272704
ECLASS 12.0	27272704
ECLASS 13.0	27272704
ECLASS 14.0	27272704
ECLASS 15.0	27272704
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
ETIM 9.0	EC002549
ETIM 10.0	EC002549

Dimensioned drawings



All dimensions in millimeters

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



 H_{PFE} Effective protective field height = 242 mm

 H_{PFN} Nominal protective field height = 225 mm

Total height = 239 mm

7 mm

- С 10 mm
- 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

Function	Cascade, Host In		
	Cascade, Middle Guest In		
Type of connection	Cable with connector		
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
68020202	MLC500T20-225G	Safety light curtain transmitter	Resolution: 20 mm Protective field height: 225 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 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 //: high Vibration-proof EX2: explosion protection (zones 2 + 22) SPG: Smart Process Gating SPG RR: Smart Process Gating – Reduced resolution

Note



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

Notes



Observe intended use!



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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.C.	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

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.
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



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