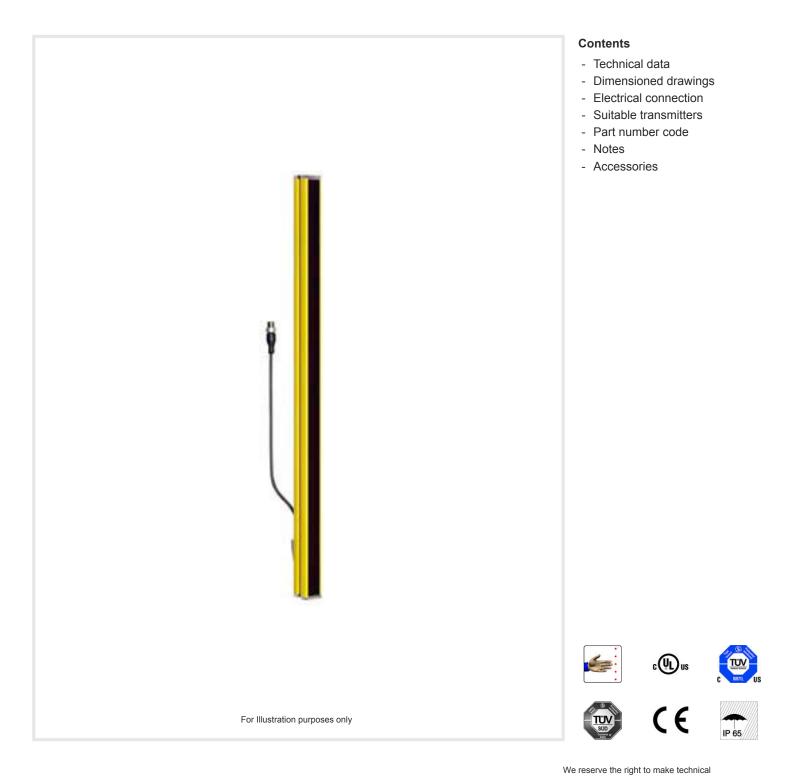


Technical data sheet Safety light curtain receiver

Part no.: 68021301 MLC520R30-150G



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changes

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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

Protective field data

Resolution	30 mm
Protective field height	150 mm
Optical data	
Number of beams	12 Piece(s)
Time behavior	
Response time	2 ms, plus response times of the Host/ Middle Guest devices
Connection	
Connection Number of connections	1 Piece(s)
	1 Piece(s)
Number of connections	1 Piece(s) Cascade, Host In
Number of connections Connection 1	
Number of connections Connection 1	Cascade, Host In
Number of connections Connection 1 Function	Cascade, Host In Cascade, Middle Guest In

PUR

M12

Plastic

8 -pin

Environmental data

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

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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		

Mechanical data

Thread size

No. of pins

Material

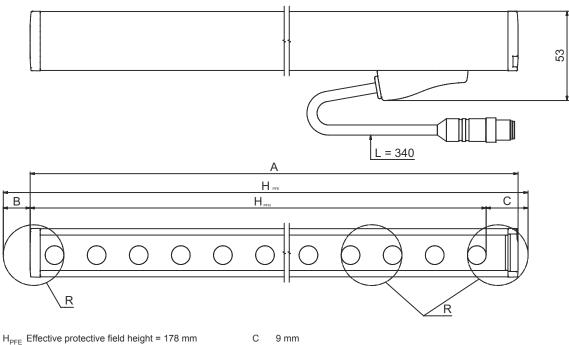
Sheathing material

Dimension (W x H x L)	29 mm x 164 mm x 53 mm		
Housing material	Metal		
Metal housing	Aluminum		
Lens cover material	Plastic / PMMA		
Material of end caps	Diecast zinc		
Net weight	280 g		
Housing color	Yellow, RAL 1021		
Type of fastening	Groove mounting		
	Mounting brackets		
	Swivel mount		

Dimensioned drawings

All dimensions in millimeters

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



- H_{PFN} Nominal protective field height = 150 mm
- Total height = 164 mm А
- В 19 mm

R

Effective protective field height ${\rm H}_{\rm PFE}$ 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 mm²
Thread size	M12
Туре	Male
Material	Plastic
No. of pins	8 -pin
Encoding	A-coded

Suitable transmitters

 Part no.	Designation	Article	Description
68020301	MLC500T30-150G	Safety light curtain transmitter	Resolution: 30 mm Protective field height: 150 mm Operating range: 0 10 m Connection: Cable with connector, M12, Plastic, 8 -pin, 330 mm, PUR

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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 - EDW/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
e	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
	Note
	S A list with all available device types can be found on the Leuze website at www.leuze.com.

Notes

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Observe intended use!

The product may only be put into operation by competent persons.

Accessories

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Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50135145	KDS S-M12-8A-M12- 8A-P1-020	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
R. Com	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
\bigcirc	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.