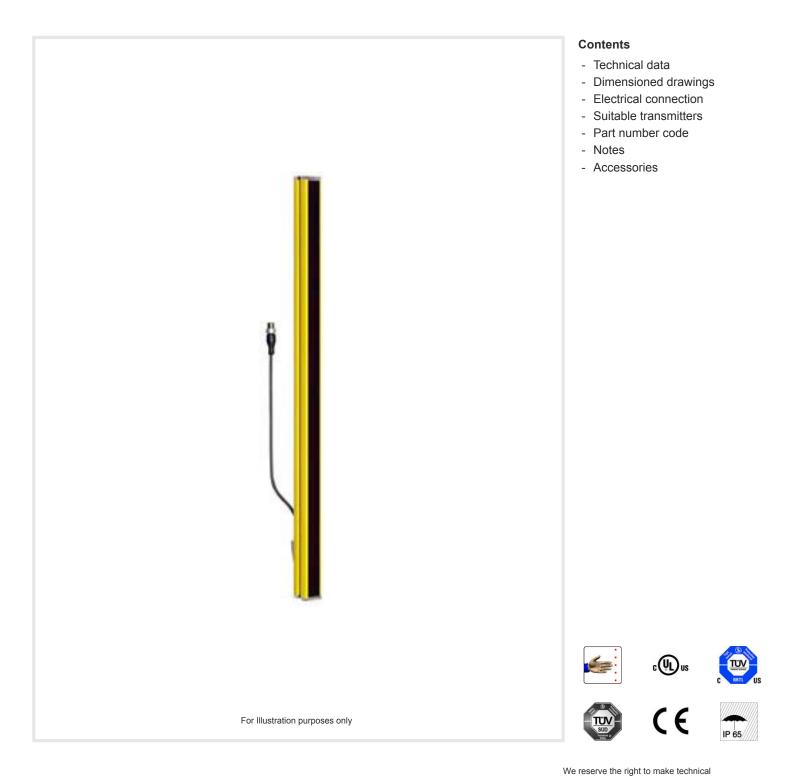


# Technical data sheet Safety light curtain receiver

Part no.: 68021306 MLC520R30-600G



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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**

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

#### Protective field data

Resolution	30 mm
Protective field height	600 mm
Optical data	
Number of beams	24 Piece(s)
Time behavior	
Response time	5 ms, plus response times of the Host/
	Middle Guest devices
Connection	
Connection	
Number of connections	1 Piece(s)
Connection 1	
Connection 1 Function	Cascade, Host In
	Cascade, Host In Cascade, Middle Guest In
	,
Function	Cascade, Middle Guest In
Function Type of connection	Cascade, Middle Guest In Cable with connector
Function Type of connection Cable length	Cascade, Middle Guest In Cable with connector 330 mm
Function Type of connection Cable length Sheathing material	Cascade, Middle Guest In Cable with connector 330 mm PUR
Function Type of connection Cable length Sheathing material Thread size	Cascade, Middle Guest In Cable with connector 330 mm PUR M12

## Mechanical data

Dimension (W x H x L)	29 mm x 614 mm x 53 mm		
Housing material	Metal		
Metal housing	Aluminum		
Lens cover material	Plastic / PMMA		
Material of end caps	Diecast zinc		
Net weight	723 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 %

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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

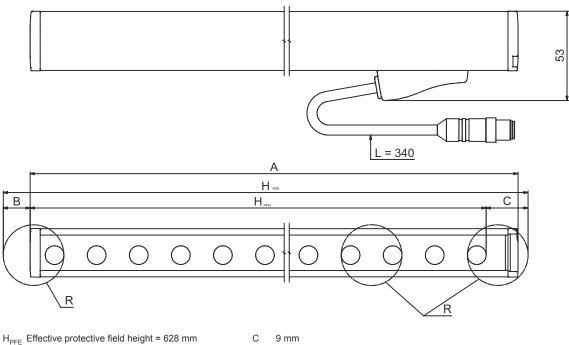
#### Classification

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			

# **Dimensioned drawings**

All dimensions in millimeters

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



R

- H<sub>PFN</sub> Nominal protective field height = 600 mm
- Total height = 614 mm А
- В 19 mm

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 Pair stranding (twisted pair) 0.14 mm²
Type of stranding	
Wire cross section	
Thread size	M12
Туре	Male
Material	Plastic
No. of pins	8 -pin
Encoding	A-coded

## Suitable transmitters

 Part no.	Designation	Article	Description
68020306	MLC500T30-600G	Safety light curtain transmitter	Resolution: 30mm Protective field height: 600mm Operating range: 0 10m Connection: Cable with connector, M12, Plastic, 8 -pin, 330mm, 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 - EDM/RES selectable         30: Extended receiver blanking/muting or gating         35: Extended receiver – Gating
z	Device type T: transmitter R: receiver
a	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 //: 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

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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
	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
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.