# **Technical data sheet**

## Safety light curtain receiver Part no.: 68023113

MLC520R14-1350MG



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 eng • 2024-07-06

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## **Technical data**

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#### Basic data

Series	MLC 500
Device type	Receiver
Cascading	Middle Guest
Contains	2x BT-NC sliding block
Application	Finger 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 <sub>M</sub>	20 years, EN ISO 13849-1
Category	4, EN ISO 13849

#### Protective field data

Resolution	14 mm
Protective field height	1,350 mm

135 Piece(s)

Guest devices

29 ms, plus response times of the Host/

#### **Optical data**

Number of beams

#### **Time behavior**

Response time

#### Connection

<u> </u>	Connection				
N	umber of connections	2 Piece(s)			
	Connection 1				
	Function	Cascade, Host In			
	Type of connection	Cable with connector			
	Cable length	330 mm			
	Sheathing material	PUR			
	Thread size	M12			
	Material	Plastic			
	No. of pins	8 -pin			
	Connection 2				
	Function	Cascade, Guest Out			
	Type of connection	Cable with connector			
	Cable length	330 mm			
	Sheathing material	PUR			
	Thread size	M12			
	Material	Plastic			
	No. of pins	8 -pin			

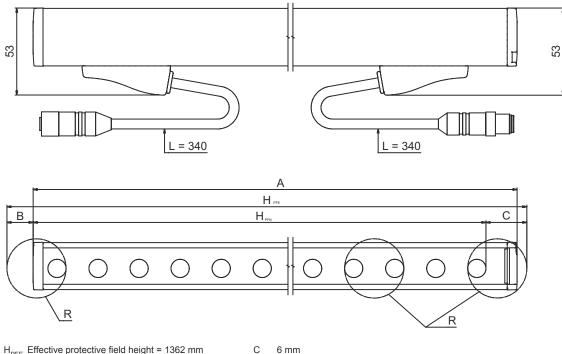
#### Mechanical data

Dimension (W x H x L)	29 mm x 1,364 mm x 53 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic / PMMA
Material of end caps	Diecast zinc
Net weight	1,548 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
Certifications	c TÜV NRTL US
	c UL US
	TÜV Süd
Vibration resistance	50 m/s²
Shock resistance	100 m/s <sup>2</sup>
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
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
ETIM 9.0	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 = 1362 mm

- H<sub>PFN</sub> Nominal protective field height = 1350 mm
- Total height = 1364 mm А
- В 6 mm

- С
- Effective protective field height  ${\rm H}_{\rm PFE}$  goes beyond the dimensions of the optics area to R the outer borders of the circles labeled with R.
- **Electrical connection**

#### **Connection 1**

Function	Cascade, Host 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

#### **Connection 2**

Function	Cascade, Guest Out
Type of connection	Cable with connector
Cable length	330 mm
Sheathing material	PUR
Cable color	Black
Wire cross section	0.14 mm <sup>2</sup>



## **Electrical connection**

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#### **Connection 2**

Type of stranding	Pair stranding (twisted pair)
Thread size	M12
Туре	Female
Material	Plastic
No. of pins	8 -pin
Encoding	A-coded

## Suitable transmitters

Part no.	Designation	Article	Description
68022113	MLC500T14-1350MG	Safety light curtain transmitter	Resolution: 14 mm Protective field height: 1,350 mm Operating range: 0 6 m Connection: Cable with connector, M12, Plastic, 8 -pin, 330 mm, PUR

### Part number code

MLC	Safety light curtain
x	<b>Series</b> 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
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	<b>Option</b> <i>I</i> /V: high Vibration-proof EX2: explosion protection (zones 2 + 22) SPG: Smart Process Gating
Ν	lote
R	A list with all available device types can be found on the Leuze website at www.leuze.com.

## Notes



Observe intended use!

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
R. A.	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.

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## Accessories

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Part no.	Designation	Article	Description
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
6	K A list with all available

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