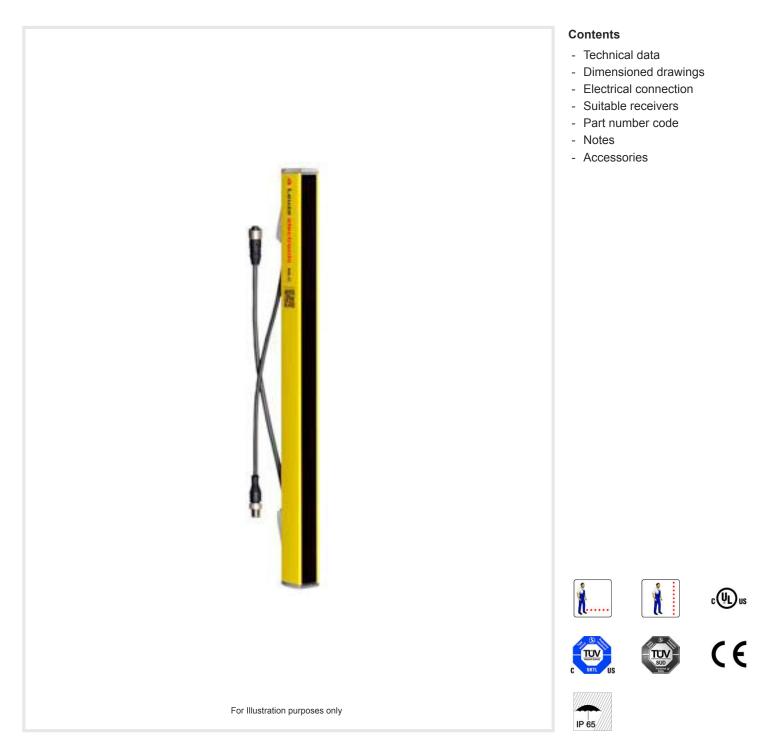


## **Technical data sheet** Safety light curtain transmitter

## Part no.: 68022909 MLC500T90-900MG



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 eng • 2025-02-17

We reserve the right to make technical

## **Technical data**

# Leuze

### Basic data

Series	MLC 500
Device type	Transmitter
Cascading	Middle Guest
Contains	2x BT-NC sliding block
Application	Access guarding
	Danger zone guarding

### **Characteristic parameters**

Туре	4, IEC/EN 61496
SIL	3, IEC 61508
SILCL	3, IEC/EN 62061
Mission time T <sub>M</sub>	20 years, EN ISO 13849-1

#### **Protective field data**

Resolution	90 mm
Protective field height	900 mm
Operating range	0 20 m

### **Optical data**

Number of beams	12 Piece(s)
Light source	LED, Infrared
Wavelength	940 nm
Transmitted-signal shape	Pulsed
LED risk group	Exempt group (in acc. with EN 62471:2008)

#### Connection

Number 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

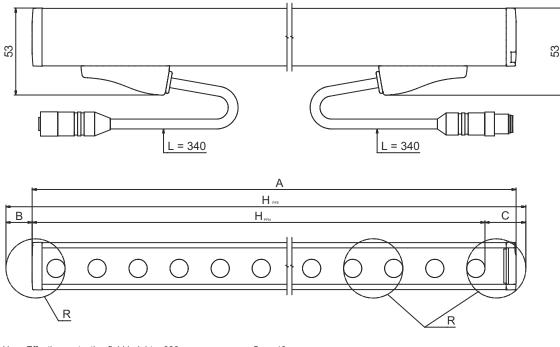
### Mechanical data

Dimension (W x H x L)29 mm x 914 mm x 53 mmHousing materialMetailMetail housingAluminumLens cover materialPlastic / PMMAMaterial of end capsDiecast zincNet weight1.098 gHousing colorYellow, RAL 1021Type of fasteningGroove mounting Mounting brackets Swivel mountEnvironmental data0 55 °CAmbient temperature, operation0 55 °CAmbient temperature, storage-30 70 °CRelative humidity (non-condensing)0 95 %CertificationsUIPaprovalsc TÜV NRTL US c UU S TÜV SüdVibration resistance50 m/s²Shock resistance100 m/s²Us patentsUS 6,418,546 BClassification27272704EcLASS 51.427272704EcLASS 11.027272704EcLASS 12.027272704EcLASS 12.027272704EcLASS 12.027272704EcLASS 13.027272704EcLASS 13.027272704		
Metal housingAluminumLens cover materialPlastic / PMMAMaterial of end capsDiecast zincNet weight1,098 gHousing colorYellow, RAL 1021Type of fasteningGroove mounting Mounting brackets Swivel mountEnvironmental dataAmbient temperature, operation0 55 °CAmbient temperature, storage-30 70 °CRelative humidity (non-condensing)0 95 %CertificationsIIIPegree of protectionIP 65Protection classIIIApprovalsc TÜV NRTL US c UL US TÜV SüdVibration resistance50 m/s²Shock resistance100 m/s²US patentsUS 6,418,546 BClassification27272704EcLASS 5.027272704EcLASS 5.1.427272704EcLASS 11.027272704EcLASS 11.027272704EcLASS 11.027272704EcLASS 11.027272704EcLASS 15.027272704EcLASS 15.027272704EcLASS 15.027272704EcLASS 15.027272704EcLASS 15.027272704EcLASS 15.027272704EcLASS 15.0Ec002549ETIM 5.0Ec002549ETIM 5.0Ec002549ETIM 5.0Ec002549ETIM 5.0Ec002549ETIM 5.0Ec002549	Dimension (W x H x L)	29 mm x 914 mm x 53 mm
Lens cover materialPlastic / PMMAMaterial of end capsDiecast zincNet weight1,098 gHousing colorYellow, RAL 1021Type of fasteningGroove mounting Mounting brackets Swivel mountEnvironmental data	Housing material	Metal
Material of end capsDiecast zincNet weight1,098 gHousing colorYellow, RAL 1021Type of fasteningGroove mounting Mounting brackets Swivel mountEnvironmental dataAmbient temperature, operation0 55 °CAmbient temperature, storage-30 70 °CRelative humidity (non-condensing)0 95 %CertificationsIIIDegree of protectionIP 65Protection classIIIApprovalsc TÜV NRTL US c UL US TÜV SudShock resistance50 m/s²Shock resistance100 m/s²US patents27272704ECLASS 51.427272704ECLASS 10.027272704ECLASS 11.027272704ECLASS 11.027272704ECLASS 11.027272704ECLASS 11.027272704ECLASS 15.027272704ECLASS 15.0 <td< th=""><th>Metal housing</th><th>Aluminum</th></td<>	Metal housing	Aluminum
Net weight1,098 gHousing colorYellow, RAL 1021Type of fastening Mounting brackets Swivel mountEnvironmental dataAmbient temperature, operation0 55 °CAmbient temperature, storage-30 70 °CRelative humidity (non-condensing)0 95 %CertificationsIIIDegree of protectionIP 65Protection classIIIApprovalsc TÜV NRTL US c UL US TÜV SUdVibration resistance50 m/s²Shock resistance100 m/s²US patentsUS 6,418,546 BClassification27272704EcLASS 5.1.427272704EcLASS 10.027272704EcLASS 11.027272704EcLASS 11.027272704EcLASS 14.027272704EcLASS 15.027272704EcLASS 15.027272704 <t< th=""><th>Lens cover material</th><th>Plastic / PMMA</th></t<>	Lens cover material	Plastic / PMMA
Housing colorYellow, RAL 1021Type of fasteningGroove mounting Mounting brackets Swivel mountEnvironmental dataAmbient temperature, operation0 55 °CAmbient temperature, storage-30 70 °CRelative humidity (non-condensing)0 95 %CertificationsIIIDegree of protectionIP 65Protection classIIIApprovalsc TÜV NRTL US c UL US TÜV SUdVibration resistance50 m/s²Shock resistance100 m/s²US patentsUS 6,418,546 BClassification27272704EcLASS 5.1.427272704EcLASS 10.027272704EcLASS 11.027272704EcLASS 12.027272704EcLASS 13.027272704EcLASS 14.027272704EcLASS 15.027272704EcLASS 15.027272704EcLASS 15.027272704EcLASS 15.027272704EcLASS 15.0 <t< th=""><th>Material of end caps</th><th>Diecast zinc</th></t<>	Material of end caps	Diecast zinc
Type of fasteningGroove mounting Mounting brackets Swivel mountEnvironmental dataAmbient temperature, operation0 55 °CAmbient temperature, storage-30 70 °CRelative humidity (non-condensing)0 95 %Certifications0 95 %Degree of protectionIP 65Protection classIIIApprovalsc TÜV NRTL US c UL US TÜV SUdVibration resistance50 m/s²Shock resistance100 m/s²US patentsUS 6,418,546 BClassification27272704ECLASS 51.427272704ECLASS 10.027272704ECLASS 11.027272704ECLASS 11.0	Net weight	1,098 g
Mounting brackets Swivel mountEnvironmental dataAmbient temperature, operation0 55 °CAmbient temperature, storage-30 70 °CRelative humidity (non-condensing)0 95 %Certifications0 95 %Degree of protectionIP 65Protection classIIIApprovalsc TÜV NRTL US c UL US TÜV SüdVibration resistance50 m/s²Shock resistance100 m/s²US patentsUS 6,418,546 BClassification27272704EcLASS 5.1.427272704EcLASS 10.027272704EcLASS 11.027272704EcLASS 11.027272704EcLASS 13.027272704EcLASS 13.027272704EcLASS 13.027272704EcLASS 13.027272704EcLASS 13.027272704EcLASS 13.027272704EcLASS 13.027272704EcLASS 13.027272704EcLASS 14.027272704EcLASS 15.027272704EcLASS 15.027	Housing color	Yellow, RAL 1021
Swivel mountEnvironmental dataAmbient temperature, operation0 55 °CAmbient temperature, storage-30 70 °CRelative humidity (non-condensing)0 95 %CertificationsDegree of protectionIP 65Protection classIIIApprovalsc TÜV NRTL USc UL USTÜV SüdVibration resistance50 m/s²Shock resistance100 m/s²US patentsUS 6,418,546 BClassification27272704EcLASS 5.1.427272704EcLASS 1.027272704EcLASS 1.027272704	Type of fastening	Groove mounting
Environmental dataAmbient temperature, operation0 55 °CAmbient temperature, storage-30 70 °CRelative humidity (non-condensing)0 95 %CertificationsDegree of protectionProtection classIIIApprovalsc TÜV NRTL US c UL US TÜV SüdVibration resistance50 m/s²Shock resistance100 m/s²US patentsUS 6,418,546 BClassificationCustoms tariff numberECLASS 5.1.427272704ECLASS 9.027272704ECLASS 10.027272704ECLASS 11.027272704ECLASS 11.027272704 </th <th></th> <th>Mounting brackets</th>		Mounting brackets
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## **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 = 990 mm

- H<sub>PFN</sub> Nominal protective field height = 900 mm A Total height = 914 mm
- B 50 mm
- B 50 mm

C 40 mm

R Effective protective field height H<sub>PFE</sub> 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
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 <sup>2</sup>
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>

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## **Electrical connection**

## Leuze

### **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 receivers

	Part no.	Designation	Article	Description
Į.	68023909	MLC520R90-900MG	Safety light curtain receiver	Resolution: 90 mm Protective field height: 900 mm Response time: 3 ms Connection: Cable with connector, M12, Plastic, 8 -pin, 330 mm, PUR

## Part number code

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
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 /V: high Vibration-proof EX2: explosion protection (zones 2 + 22) SPG: Smart Process Gating SPG RR: Smart Process Gating – Reduced resolution
l	Note
A	ゃ A list with all available device types can be found on the Leuze website at www.leuze.com.

### Notes





Observe intended use!

 $\ensuremath{^{\textcircled{\tiny \$}}}$  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
	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.Q.	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

### Alignment aids

 Part no.	Designation	Article	Description
520101	AC-ALM-M	Alignment aid	Housing material: Plastic

### Accessories

# Leuze

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