SMART SENSOR BUSINESS

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Part no.: 68022204 MLC500T20-450MG Safety light curtain transmitter





Figure can vary

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- Dimensioned drawings
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Part no.: 68022204 – MLC500T20-450MG – Safety light curtain transmitter

Technical data

Cascading Middle Guest Contains 2x BT-NC skiding block Application Hand protection Characteristic parameters Type 4. IEC/EN 61496 SIL 3. IEC/EN 61496 SIL 3. IEC/EN 62061 Mission time Tw 20 years , EN ISO 13849-1 Protective field data Resolution 20 mm Protective field data Resolution 20 mm Protective field height 450 mm Operating range 0 15 m Operating range Protective field data ED jett wavelength 940 nm Transmitter-signal shape Pulsed LED of maxelength ED ight wavelength 940 nm Transmitter-signal shape Pulsed ED ight wavelength 940 nm Streating material PUR Thread size M12 Material PIR Thread size M12 Material PIR Thread size M12 Material PUR Thread size M12 Material PIR Thread size M12 Th	Basic data		
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Housing material Metal , Aluminum	Mechanical data		
	Dimension (W x H x L)	29 mm x 464 mm x 53 mm	
Lens cover material Plastic / PMMA	Housing material		
	Lens cover material	Plastic / PMMA	

Leuze electronic GmbH + Co. KG, In der Braike 1, 73277 Owen Phone: +49 7021 573-0, Fax: +49 7021 573-199 info@leuze.com • www.leuze.com We reserve the right to make technical changes • eng 2019-09-12 2 / 7

Part no.: 68022204 – MLC500T20-450MG – Safety light curtain transmitter

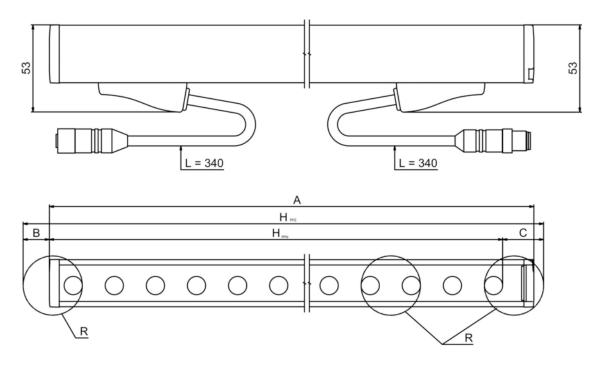
Material of end caps	Diecast zinc			
Net weight	648 g			
Housing color	Yellow, RAL 1021			
Type of fastening	Groove mounting Mounting bracket Swivel mount			
Environmental data				
Ambient temperature, operation	0 55 °C			
Ambient temperature, storage	-30 70 °C			
Relative humidity (non-condensing)	0 95 %			
Certifications				
Degree of protection	IP 65			
Protection class	III			
Certifications	c CSA US c TÜV NRTL 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			
eCl@ss 8.0	27272704			
eCl@ss 9.0	27272704			
ETIM 5.0	EC002549			
ETIM 6.0	EC002549			

Dimensioned drawings

All dimensions in millimeters

Part no.: 68022204 – MLC500T20-450MG – Safety light curtain transmitter

Calculation of the effective protective field height HPFE = HPFN + B + C



HPFE Effective protective field height = 467 mm

- HPFN Nominal protective field height = 450 mm
- A Total height = 464 mm
- B 7 mm
- C 10 mm

R 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	
Type of connection	Cable with connector
Function	Cascade, Host In
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

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

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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 receivers

	Part no.	Designation	Article	Description
K	68023204	MLC520R20-450MG		Resolution: 20 mm Protective field height: 450 mm Response time: 8 ms Connection: Cable with connector, M12, Plastic, 8 -pin, 330 mm, PUR

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
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

Note

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

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Notes

Observe intended use!

- 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
	CB- M12-2000E-8TP		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.G.	429395	BT-2HF-G	set	Contains: 2x BT-HF swivel mount, 2 cylinders for mounting on the light curtain 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

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Services

	Part no.	Designation	Article	Description
()	S981050	CS40-I-140	Safety inspection "Safety light barriers"	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. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.
	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. Restrictions: Max. 2 h., no mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment.

Note	
A list with all available accessories can be found on the Leuze electronic website in the Download tab of the article detailed page.	1