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Part no.: 68022206 MLC500T20-600MG Safety light curtain transmitter



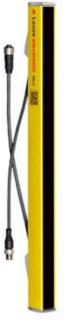


Figure can vary

# Contents

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## Part no.: 68022206 – MLC500T20-600MG – 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 600 mm Operating range 0 15 m Optical data USU Control C	Basic data		
Cascading     Middle Guest       Contains     2x BT-NC siding block       Application     Hand protection       Characteristic parameters     ************************************	Series	MLC 500	
Ontains         2x BT-NC sliding block           Application         Hand protection           Characteristic parameters	Device type	Transmitter	
Application     Hand protection       Characteristic parameters	Cascading	Middle Guest	
Characteristic parameters         Type       4. IEC/EN 61496         SIL       3. IEC 61508         SILCL       3. IEC/EN 62061         Mission time TM       20 years, EN ISO 13849-1         Protective field data         Resolution         Optical data       20 years, EN ISO 13849-1         Number of beams         Optical data         Number of beams         LED infrared	Contains	2x BT-NC sliding block	
Type       4, IEC/EN 61496         SIL       3, IEC € 0508         SILCL       3, IEC € 0508         Mission time TM       20 years , EN ISO 13849-1         Protective field deta         Resolution       20 mm         Protective field height       600 mm         Operating range       015 m         Otter data         Protective field height         Operating range         Pase of connection         <	Application	Hand protection	
Type       4, IEC/EN 61496         SIL       3, IEC € 0508         SILCL       3, IEC € 0508         Mission time TM       20 years , EN ISO 13849-1         Protective field deta         Resolution       20 mm         Protective field height       600 mm         Operating range       015 m         Otter data         Protective field height         Operating range         Pase of connection         <			
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Protective field data         Resolution       20 mm         Protective field height       600 mm         Operating range       0 15 m         Optical data       9000000000000000000000000000000000000	SILCL	3 , IEC/EN 62061	
Resolution     20 mm       Protective field height     600 mm       Operating range     0 15 m       Optical date       Optical date       Puticed       Light source       LED , Infrared       LED light wavelength     940 nm       Tansmitted-signal shape       Puticed       LED group     Exempt group in acc. with EN 62471:2008       Connection       Connection       Connection       Cascade, Host In       Cascade, Guest Cut	Mission time T <sub>M</sub>	20 years , EN ISO 13849-1	
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Transmitted-signal shape     Pulsed       LED group     Exempt group in acc. with EN 62471:2008       Connection     2 Piece(s)       Connection 1     Type of connection       Type of connection     Cascade, Host In       Cable length     330 mm       Sheathing material     PUR       Thread size     M12       Material     Plastic       No. of pins     8-pin       Connection     Cascade, Guest Out       Cable length     330 mm       Sheathing material     PUR       Thread size     M12       Material     Plastic       No. of pins     8-pin       Cannection 2     Cascade, Guest Out       Cable length     330 mm       Sheathing material     PUR       Thread size     M12       Material     PUR       Thread size     M12       Material     Plastic       No. of pins     8-pin			
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Number of connections       2 Piece(s)         Connection 1       Type of connection         Type of connection       Cable with connector         Function       Cascade, Host In         Cable length       330 mm         Sheathing material       PUR         Thread size       M12         Material       Plastic         No. of pins       8 -pin         Connection 2       Type of connection         Type of connection       Cable with connector         Function       Cascade, Guest Out         Cable length       330 mm         Sheathing material       PUR         Type of connection       Cable with connector         Function       Cascade, Guest Out         Cable length       330 mm         Sheathing material       PUR         Thread size       M12         Material       Plastic         No. of pins       8 -pin         Material       Plastic         No. of pins       8 -pin         Material       Plastic         No. of pins       8 -pin         Material       Plastic         No. of pins       8 -pin <td>LED group</td> <td>Exempt group in acc. with EN 62471:2008</td>	LED group	Exempt group in acc. with EN 62471:2008	
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Thread sizeM12MaterialPlasticNo. of pins8 -pinConnection 2Type of connectionCable with connectorFunctionCascade, Guest OutCable length330 mmSheathing materialPURThread sizeM12MaterialPlasticNo. of pins8 -pin	Cable length	330 mm	
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No. of pins       8 -pin         Connection 2          Type of connection       Cable with connector         Function       Cascade, Guest Out         Cable length       330 mm         Sheathing material       PUR         Thread size       M12         Material       Plastic         No. of pins       8 -pin	Thread size	M12	
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Function       Cascade, Guest Out         Cable length       330 mm         Sheathing material       PUR         Thread size       M12         Material       Plastic         No. of pins       8 -pin	Connection 2		
Cable length       330 mm         Sheathing material       PUR         Thread size       M12         Material       Plastic         No. of pins       8 -pin	Type of connection	Cable with connector	
Sheathing material       PUR         Thread size       M12         Material       Plastic         No. of pins       8 -pin         Mechanical data         Dimension (W x H x L)       29 mm x 614 mm x 53 mm         Housing material       Metal , Aluminum	Function	Cascade, Guest Out	
Thread size       M12         Material       Plastic         No. of pins       8 -pin         Mechanical data         Dimension (W x H x L)       29 mm x 614 mm x 53 mm         Housing material       Metal , Aluminum	Cable length	330 mm	
Material     Plastic       No. of pins     8 -pin       Mechanical data       Dimension (W x H x L)     29 mm x 614 mm x 53 mm       Housing material     Metal , Aluminum	Sheathing material	PUR	
No. of pins     8 -pin       Mechanical data       Dimension (W x H x L)     29 mm x 614 mm x 53 mm       Housing material     Metal , Aluminum	Thread size	M12	
Mechanical data         Dimension (W x H x L)       29 mm x 614 mm x 53 mm         Housing material       Metal , Aluminum	Material		
Dimension (W x H x L)     29 mm x 614 mm x 53 mm       Housing material     Metal , Aluminum	No. of pins	8 -pin	
Dimension (W x H x L)     29 mm x 614 mm x 53 mm       Housing material     Metal , Aluminum			
Housing material Metal , Aluminum	Mechanical data		
	Dimension (W x H x L)	29 mm x 614 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.: 68022206 – MLC500T20-600MG – Safety light curtain transmitter

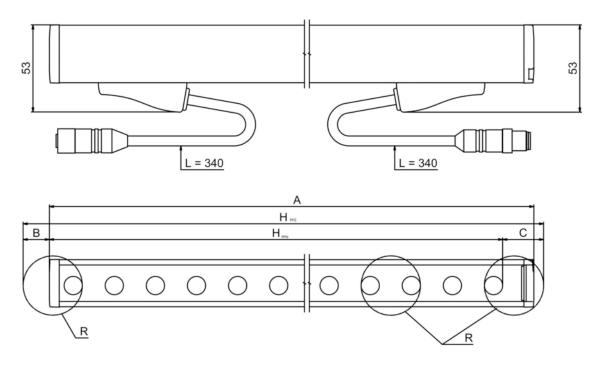
Material of end caps	Diecast zinc			
Net weight	798 g			
Housing color	Yellow, RAL 1021			
Type of fastening	Groove mounting Mounting bracket Swivel mount			
Environmental data				
Ambient temperature, operation	0 55 °C			
Ambient temperature, storage	-30 70 °C			
Relative humidity (non-condensing)	0 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 <sup>2</sup>			
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.: 68022206 – MLC500T20-600MG – Safety light curtain transmitter

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



HPFE Effective protective field height = 617 mm

- HPFN Nominal protective field height = 600 mm
- A Total height = 614 mm
- B 7 mm
- C 10 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	
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 <sup>2</sup>
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 <sup>2</sup>

## Part no.: 68022206 – MLC500T20-600MG – Safety light curtain transmitter

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	68023206	MLC520R20-600MG		Resolution: 20 mm Protective field height: 600 mm Response time: 10 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.

### Part no.: 68022206 – MLC500T20-600MG – Safety light curtain transmitter

#### 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

## Part no.: 68022206 – MLC500T20-600MG – Safety light curtain transmitter

#### 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.