

Technical data sheet Safety light curtain receiver

Part no.: 68021401 MLC520R40-150G



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We reserve the right to make technical

Technical data

Basic data

Basic data				
Series	MLC 500			
Device type	Receiver			
Cascading	Guest			
Contains	2x BT-NC sliding block			
Application	Access guarding			
	Danger zone guarding			
	Hand 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 _M	20 years, EN ISO 13849-1			
Category	4, EN ISO 13849			
Protective field data				
Resolution	40 mm			
Protective field height	150 mm			
Optical data				
Number of beams	12 Piece(s)			
Time behavior				
Response time	2 ms, plus response times of the Host/			
	Middle Guest devices			
Connection				
Number of connections	1 Piece(s)			
Connection 1				
Function	Cascade, Host In			
	Cascade, Middle Guest In			
Type of connection	Cable with connector			
Cable length	330 mm			
Sheathing material	PUR			
Thread size	M12			
Material	Plastic			

Mechanical data

No. of pins

Dimension (W x H x L)	29 mm x 164 mm x 53 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic / PMMA
Material of end caps	Diecast zinc
Net weight	280 g
Housing color	Yellow, RAL 1021
Type of fastening	Groove mounting
	Mounting brackets
	Swivel mount

8 -pin

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
Certifications	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

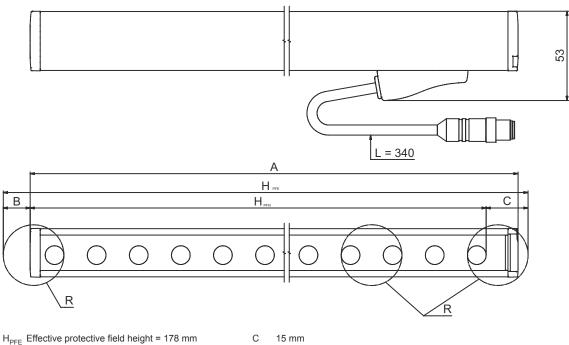
Classification

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_{PFN} Nominal protective field height = 150 mm
- Total height = 164 mm А
- В 25 mm

R

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	
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	

Suitable transmitters

 Part no.	Designation	Article	Description
68020401	MLC500T40-150G	Safety light curtain transmitter	Resolution: 40 mm Protective field height: 150 mm Operating range: 0 20 m Connection: Cable with connector, M12, Plastic, 8 -pin, 330 mm, 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
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 /V: high Vibration-proof EX2: explosion protection (zones 2 + 22) SPG: Smart Process Gating
N	ote
N	A list with all available device types can be found on the Leuze website at www.leuze.com.

Notes



Observe intended use!

 ${\ensuremath{\,\textcircled{\tiny \ensuremath{\,\Downarrow}}}}$ The product may only be put into operation by competent persons.

 $\ensuremath{\mathfrak{b}}$ Only use the product in accordance with its intended use.

Accessories

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Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50135145	KDS S-M12-8A-M12- 8A-P1-020	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
()	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

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