SMART SENSOR BUSINESS

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Part no.: 68021401 MLC520R40-150G Safety light curtain receiver

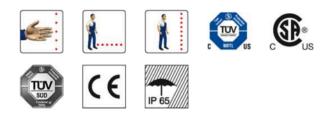


Figure can vary

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Part no.: 68021401 – MLC520R40-150G – Safety light curtain receiver

Technical 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)
Timing	
Response time	2 ms
Connection	
Number of connections	1 Piece(s)
Connection 1	
Type of connection	Cable with connector
Function	Cascade, Host In Cascade, Middle Guest In
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 164 mm x 53 mm
Housing material	Metal , 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 bracket Swivel mount

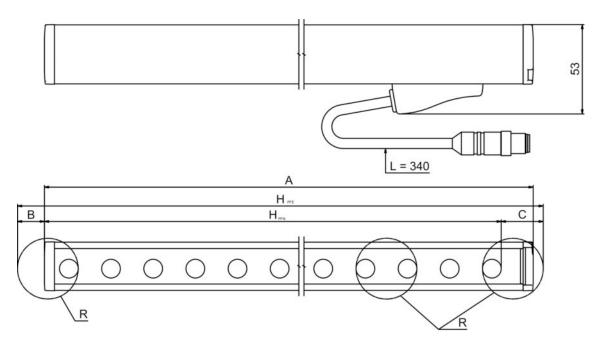
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Environmental data				
Ambient temperature, operation	0 55 °C	0 55 °C		
Ambient temperature, storage	-30 70 °C			
Relative humidity (non-condensing)	0 95 %			
Certifications				
Degree of protection	IP 65			
Protection class	III			
Certifications	c CSA US c TÜV NRTL US TÜV Süd			
Vibration resistance	50 m/s²			
Shock resistance	100 m/s²			
US patents	US 6,418,546 B	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

Calculation of the effective protective field height $H_{PFE} = H_{PFN} + B + C$



HPFE Effective protective field height = 178 mm HPFN Nominal protective field height = 150 mm

- A Total height = 164 mm
- B 25 mm
- C 15 mm

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R Effective protective field height HPFE 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 Cascade, Middle Guest 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			

Suitable transmitters

Part no.	Designation	Article	Description
68020401	MLC500T40-150G	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

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	

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MLC	Safety light curtain	
	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.

Notes

0	Ibserve 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
Image: Second				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

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Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
P.o.s	429395	BT-2HF-G	Mounting bracket 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

Services

	Part no.	Designation	Article	Description
\bigcirc	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.