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Figure can vary

Part no.: 68020410 MLC500T40-1050G Safety light curtain transmitter

















Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Suitable receivers
- · Part number code
- Notes
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Technical data

Mic Sol	Pagin data			
Device type		NII O 500		
Guest				
Contains				
Application				
Danger zone guarding Hand protection		-		
Type	Application	Danger zone guarding		
SIL 3 , IEC 61508 SILCL 3 , IEC/EN 62061 Mission time TM 20 years , EN ISO 13849-1 Protective field data Resolution 40 mm Protective field height 1,050 mm Operating range 0 20 m Optical data Number of beams 42 Piece(s) Light source LED , Infrared LED light wavelength 940 nm Transmitted-signal shape Pulsed LED group Exempt group in acc. with EN 62471:2008 Connection Number of connections 1 Piece(s) Connection Type of connections 1 Piece(s) Connection Protective in Connection Connection Connection Connection Connection Connection Connection Connection Connection <td colsp<="" td=""><td>Characteristic parameters</td><td></td></td>	<td>Characteristic parameters</td> <td></td>	Characteristic parameters		
SILCL 3 , IEC/EN 62061	Туре	4 , IEC/EN 61496		
Mission time TM 20 years , EN ISO 13849-1 Protective field data 40 mm Resolution 40 mm Operating range 0 20 m Optical date 20 m Number of beams 42 Piece(s) Light source LED , Infrared LED light wavelength 940 nm Transmitted-signal shape Pulsed LED group Exempt group in acc. with EN 62471:2008 Connection 20 mover in acc. with EN 62471:2008 Connection 1 Piece(s) Connection 1 Cable with connector Function 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 Piece(s) Dimension (W x H x L) 29 mm x 1,064 mm x 53 mm Housing material Metal , Aluminum Lens cover material Pieces 2 mover material Metal of end cap	SIL	3 , IEC 61508		
Protective field data Resolution 40 mm Protective field height 1,050 mm Operating range 0 20 m Optical data Number of beams 42 Piece(s) Light source LED, Infrared LED light wavelength 940 nm Transmitted-signal shape Pulsed LED group Exempt group in acc. with EN 62471:2008 Connection Number of connections 1 Piece(s) Connection 1 Type of connection Cable with connector Function Cascade, Host In Cascade, Middle Guest In Cascade, Middle Guest In Cascade, Middle Guest In Cascade, Middle Guest In Pulp Cascade, Middle Guest In Cascade, Middle	SILCL	3 , IEC/EN 62061		
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Mechanical data Dimension (W x H x L) Housing material Lens cover material Metal , Aluminum Plastic / PMMA Material of end caps Diecast zinc Net weight 1,173 g Housing color Type of fastening Mechanical data 29 mm x 1,064 mm x 53 mm Metal , Aluminum Plastic / PMMA Diecast zinc 1,173 g Groove mounting Mounting bracket	Thread size	M12		
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Dimension (W x H x L) 29 mm x 1,064 mm x 53 mm Housing material Metal , Aluminum Lens cover material Plastic / PMMA Material of end caps Diecast zinc Net weight 1,173 g Housing color Yellow, RAL 1021 Type of fastening Groove mounting Mounting bracket	No. of pins	8 -pin		
Housing material Metal , Aluminum Lens cover material Plastic / PMMA Material of end caps Diecast zinc Net weight 1,173 g Housing color Yellow, RAL 1021 Type of fastening Groove mounting Mounting bracket	Mechanical data			
Lens cover material Plastic / PMMA Material of end caps Diecast zinc Net weight 1,173 g Housing color Yellow, RAL 1021 Type of fastening Groove mounting Mounting bracket	Dimension (W x H x L)	29 mm x 1,064 mm x 53 mm		
Material of end caps Diecast zinc Net weight 1,173 g Housing color Yellow, RAL 1021 Type of fastening Groove mounting Mounting bracket	Housing material	Metal , Aluminum		
Net weight 1,173 g Housing color Yellow, RAL 1021 Type of fastening Groove mounting Mounting bracket	Lens cover material	Plastic / PMMA		
Housing color Yellow, RAL 1021 Type of fastening Groove mounting Mounting bracket	Material of end caps	Diecast zinc		
Type of fastening Groove mounting Mounting bracket	Net weight	1,173 g		
Mounting bracket	Housing color	Yellow, RAL 1021		
	Type of fastening	Mounting bracket		



Environmental data	
Ambient temperature, operation	0 55 °C
Ambient temperature, storage	-30 70 °C
Relative humidity (non-condensing)	0 95 %

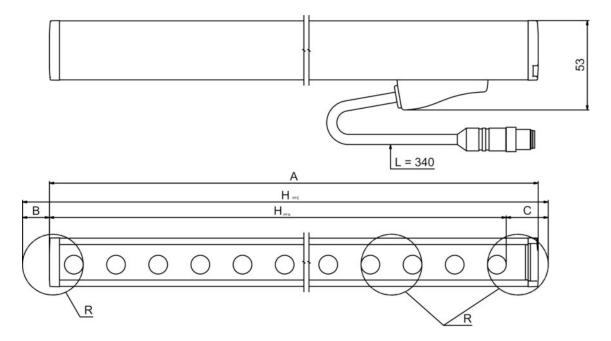
Certifications		
Degree of protection	IP 65	
Protection class	III	
Certifications	c CSA US c TÜV NRTL US TÜV Süd	
Vibration resistance	50 m/s²	
Shock resistance	100 m/s²	
US patents	US 6,418,546 B	

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

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



HPFE Effective protective field height = 1090 mm HPFN Nominal protective field height = 1050 mm

- A Total height = 1064 mm
- B 25 mm
- C 15 mm



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 receivers

Part no.	Designation	Article	Description
68021410	MLC520R40-1050G	curtain receiver	Resolution: 40 mm Protective field height: 1,050 mm Response time: 9 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
х	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



MLC	Safety light curtain
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

Note

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

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
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
Page	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

Alignment aids

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

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.