SMART SENSOR BUSINESS

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Part no.: 68006307 MLC500T30-750/A Safety light curtain transmitter



Figure can vary

Contents

- Technical data
- Dimensioned drawings
- · Electrical connection
- · Operation and display
- Suitable receivers
- · Part number code
- Notes
- Accessories

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Part no.: 68006307 – MLC500T30-750/A – Safety light curtain transmitter

Technical data

Basic data					
Series	MLC 500				
Device type	Transmitter				
Contains	2x BT-NC sliding block				
Application	Hand protection				
Characteristic parameters					
Туре	4 , IEC/EN 61496				
SIL	3, IEC 61508				
SILCL	3, IEC/EN 62061				
Mission time T _M	20 years , EN ISO 13849-1				
Protective field data					
Resolution	30 mm				
Protective field height	750 mm				
Operating range	0 10 m				
Optical data					
Synchronization	Optical between transmitter and receiver				
Light source	LED , Infrared				
	940 nm				
LED light wavelength					
Transmitted-signal shape	Pulsed				
	Pulsed Exempt group in acc. with EN 62471:2008				
Transmitted-signal shape LED group					
Transmitted-signal shape LED group Electrical data	Exempt group in acc. with EN 62471:2008	_			
Transmitted-signal shape LED group					
Transmitted-signal shape LED group Electrical data	Exempt group in acc. with EN 62471:2008 Overvoltage protection				
Transmitted-signal shape LED group <i>Electrical data</i> Protective circuit	Exempt group in acc. with EN 62471:2008 Overvoltage protection				
Transmitted-signal shape LED group Electrical data Protective circuit Performance data Supply voltage U _B	Exempt group in acc. with EN 62471:2008 Overvoltage protection Short circuit protected				
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Connection

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umber of connections	1 Piece(s)		
Connection 1			
Type of connection	Connector		
Function	Machine interface		
Thread size	M12		
Material	Metal		
No. of pins	5 -pin		
Cable properties			
Permissible conductor cross section, typ.	0.25 mm ²		
Length of connection cable, max.	100 m		
Permissible cable resistance to load, max.	200 Ω		

Mechanical data	
Dimension (W x H x L)	29 mm x 816 mm x 35.4 mm
Housing material	Metal , Aluminum
Lens cover material	Plastic / PMMA
Material of end caps	Diecast zinc
Net weight	900 g
Housing color	Yellow, RAL 1021
Type of fastening	Groove mounting Mounting bracket Mounting on Device Column Swivel mount

Operation and display		
Type of display	LED	
Number of LEDs	2 Piece(s)	

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	

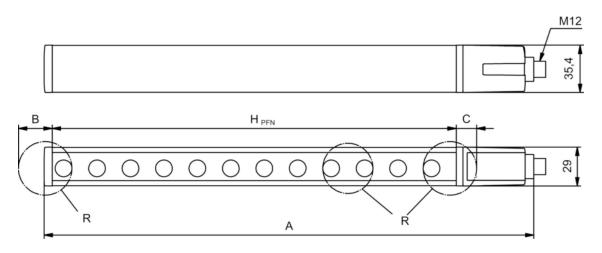
Classification		
Customs tariff number	85365019	
eCl@ss 8.0	27272704	
eCl@ss 9.0	27272704	
ETIM 5.0	EC002549	
ETIM 6.0	EC002549	

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Dimensioned drawings

All dimensions in millimeters

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



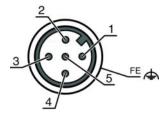
HPFE Effective protective field height = 778 mm

- HPFN Nominal protective field height = 750 mm
- A Total height = 816 mm
- B 19 mm
- C 9 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	Connector
Function	Machine interface
Thread size	M12
Туре	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin	Pin assignment
1	AS-i+
2	n.c.
3	AS-i-
4	n.c.
5	n.c.



Part no.: 68006307 – MLC500T30-750/A – Safety light curtain transmitter

Operation and display

LEDs

LED	Display	Meaning
1	Off	Device switched off
	Red, continuous light	Device error
	Green, continuous light	Normal operation

Suitable receivers

Р	Part no.	Designation	Article	Description
680	3007307		receiver	Resolution: 30 mm Protective field height: 750 mm Response time: 8 ms Interface: AS-Interface Safety at Work Connection: Connector, M12, Metal, 5 -pin

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
İ	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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Part no.: 68006307 – MLC500T30-750/A – 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

Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
R B GA	429393	BT-2HF	Mounting bracket set	Contains: 2x BT-HF swivel mount, 1 cylinder 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.