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Part no.: 68006207 MLC500T20-750/A Safety light curtain transmitter



Figure can vary

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Part no.: 68006207 – MLC500T20-750/A – Safety light curtain transmitter

Technical data

MLC 500 Transmitter 2x BT-NC sliding block Hand protection 4 , IEC/EN 61496 3 , IEC 61508 3 , IEC 61508 3 , IEC/EN 62061 20 years , EN ISO 13849-1 20 mm 750 mm 0 15 m Optical between transmitter and receiver LED , Infrared 940 nm Pulsed		
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Optical between transmitter and receiver LED , Infrared 940 nm		
LED , Infrared 940 nm		
LED , Infrared 940 nm		
940 nm		
Pulsed		
Exempt group in acc. with EN 62471:2008		
Overvoltage protection		
Short circuit protected		
26.5 31.6 V		
50 mA		
1 Piece(s)		
Digital switching input		
18 V		
2.5 V		
22.5 V		
DC		
AS-Interface Safety at Work		
Process		
S-0.B.F		
131 programmable, default=0		
Max. 5 ms		

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	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	c TÜV NRTL US	
Vibration resistance	50 m/s²		
Shock resistance	100 m/s²		
US patents	US 6,418,546 B		

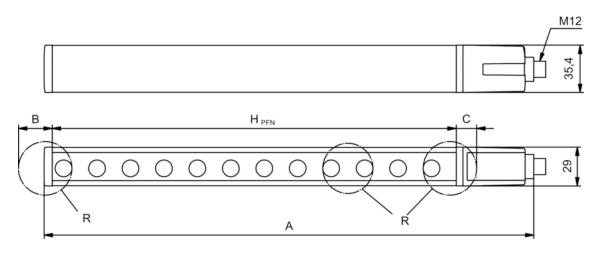
Classification			
Customs tariff number	85365019	85365019	
eCl@ss 8.0	27272704		
eCl@ss 9.0	27272704		
ETIM 5.0	EC002549		
ETIM 6.0	EC002549		

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Dimensioned drawings

All dimensions in millimeters

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



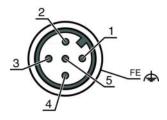
HPFE Effective protective field height = 767 mm

- HPFN Nominal protective field height = 750 mm
- A Total height = 816 mm
- B 7 mm
- C 10 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.



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Operation and display

LEDs

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

Suitable receivers

Pa	Part no.	Designation	Article	Description
680	8007207		receiver	Resolution: 20 mm Protective field height: 750 mm Response time: 14 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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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
PPPR	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.