

Technical data sheet Safety light curtain transmitter

Part no.: 68006312

MLC500T30-1200/A



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Technical data



Basic data

Series	MLC 500
Device type	Transmitter
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	1,200 mm
Operating range	0 10 m

Optical data

Synchronization	Optical between transmitter and receiver
Synchronization	Optical between transmitter and receiver
Light source	LED, Infrared
LED light wavelength	940 nm
Transmitted-signal shape	Pulsed

Electrical data Protective circuit

	Short circuit protected
Performance data	

Overvoltage protection

Supply voltage U _B	26.5 31.6 V
Current consumption from AS-i circuit	50 mA

Inputs

Number of digital switching inputs	1 Piece(s)
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Switching	inputs
Time	

Туре	Digital switching input
Switching voltage high, min.	18 V
Switching voltage low, max.	2.5 V
Switching voltage, typ.	22.5 V
Voltage type	DC

Interface

Type AS	-Interface Safety at Work
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Α		:
А	-	

701	
Function	Process
AS-i profile	S-0.B.F
Slave address	131 programmable, default=0
Cycle time acc. to AS-i specifications	Max. 5 ms ms

Connection

Number of connections

Connection 1	
Function	Machine interface
Type of connection	Connector
Thread size	M12
Material	Metal
No. of pins	5 -pin

1 Piece(s)

Cable p	rope	rties
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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

ım x 1,266 mm x 35.4 mm
ıl
ninum
tic / PMMA
ast zinc
0 g
w, RAL 1021
ve mounting
nting bracket
nting on Device Column
el 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
Polative humidity (non-condensing)	0 95%

Certifications

Degree of protection	IP 65
Protection class	III
Certifications	c CSA US
	c TÜV NRTL US
	TÜV Süd
US patents	US 6,418,546 B

Classification

Customs tariff number	85365019
eCI@ss 5.1.4	27272704
eCI@ss 8.0	27272704
eCl@ss 9.0	27272704
eCl@ss 10.0	27272704
eCI@ss 11.0	27272704
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549

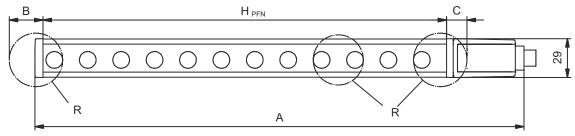
Dimensioned drawings



All dimensions in millimeters

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





 H_{PFE} Effective protective field height = 1228 mm

 ${\rm H}_{\rm PFN}$ Nominal protective field height = 1200 mm

- A Total height = 1266 mm
- B 19 mm

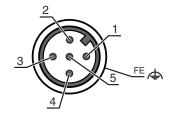
- C 9 mm
- R Effective protective field height H_{PFE} goes beyond the dimensions of the optics area to the outer borders of the circles labeled with R.

Electrical connection

Connection 1

Function	Machine interface
Type of connection	Connector
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.



Operation and display

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

Suitable receivers



Part no.	Designation	Article	Description
68007312	MLC510R30-1200/A	Safety light curtain receiver	Resolution: 30 mm Protective field height: 1,200 mm Response time: 12 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						
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						
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						
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 website at www.leuze.com.

Notes



Observe intended use!



♥ The product may only be put into operation by competent persons.

Accessories



Mounting technology - Swivel mounts

Part no.	Designation	Article	Description
429393	BT-2HF	Mounting bracket set	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
-1	520101	AC-ALM-M	Alignment aid	Housing material: Plastic

Services

Part no.	Designation	Article	Description
S981050	CS40-l-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 website in the Download tab of the article detailed page.