

Technical data sheet Light curtain receiver Part no.: 50123309 CML730i-R10-320.A/D3-M12



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Technical data

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Basic data

Deperating principle Throughbeam principle Device type Receiver Contains 2x BT-NC sliding block Application Detection of transparent objects Object measurement Object measurement Special version Crossed-beam scanning Diagonal-beam scanning Diagonal-beam scanning Deperating range 0.3 9.5 m Operating range, transparent media 0.3 3.5 m Operating range ilmit 0.2 12 m Operating range ilmit 0.2 12 m Operating range limit 2.2 mm Vumber of beams 32 Piece(s) Beam spacing 10 mm Veasurement field length 320 mm Vumber of beams 32 Piece(s) Beam spacing 10 mm Veasurement data Short circuit protection Short circuit protected Transient protection Short circuit protected Transient protection Performance data Supply voltage Ug Supply voltage Ug 18 30 V, DC Residual ripple 0 15 %, From Ug <t< th=""><th>Basic data</th><th></th></t<>	Basic data	
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Response time per beam 10 μs Interface Image: Constraint of the second	Time behavior	
Interface Type RS 485 Modbus RS 485 Function Process Service interface	Cycle time	1 ms
Type RS 485 Modbus RS 485 Process Function Process Service interface	Response time per beam	10 µs
RS 485 Function Process Service interface	Interface	
Function Process Service interface	Туре	RS 485 Modbus
Service interface	RS 485	
	Function	Process
	Service interface	
Type IO-Link		
	Туре	IO-Link

	IO-Link	
	Function	Configuration via software
		Service
С	onnection	
N	umber of connections	2 Piece(s)
P	ug outlet	Axial
	Connection 1 Function	Configuration interface
		Connection to transmitter
		Signal IN
		Signal OUT
		Voltage supply
	Type of connection	Connector
	Thread size	M12
	Type	Male
	Material No. of pins	Metal
	Encoding	8 -pin A-coded
	Lineaning	
	Connection 2	
	Function	BUS IN
		BUS OUT
	Type of connection	Connector
	Thread size	M12
	Type	Female
	Material No. of pins	Metal 5 -pin
	Encoding	B-coded
	Literating	5 00000
Μ	echanical data	
D	esign	Cubic
	imension (W x H x L)	29 mm x 35.4 mm x 395 mm
	ousing material	Metal
	etal housing ens cover material	Aluminum Plastic
	et weight	550 g
	ousing color	Silver
	/pe of fastening	Groove mounting
		Via optional mounting device
0	peration and display	
_		LED
(י	vpe of display	OLED display
N	umber of LEDs	2 Piece(s)
	/pe of configuration	Software
-		Teach-in
0	perational controls	Membrane keyboard
Е	nvironmental data	
A	mbient temperature, operation	-30 60 °C
	mbient temperature, storage	-40 70 °C
С	ertifications	
D	egree of protection	IP 65
	rotection class	
	pprovals	c UL US
	andards applied	IEC 60947-5-2

Technical data

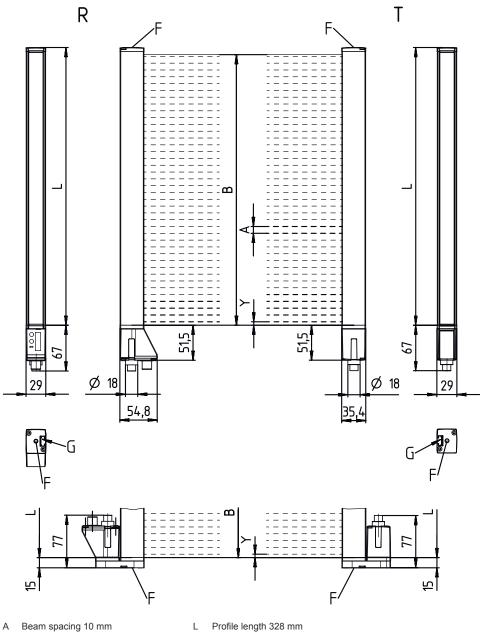
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ECLASS 12.0	27270910
ECLASS 13.0	27270910
ECLASS 14.0	27270910
ECLASS 15.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
ETIM 9.0	EC002549
ETIM 10.0	EC002549

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Dimensioned drawings

All dimensions in millimeters



В

Fastening groove

- Measurement field length 320 mm
- F M6 thread

G

R Receiver

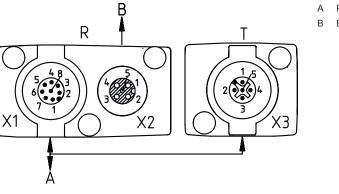
Т

Υ 5 mm

Transmitter

Dimensioned drawings





A PWR / SW IN / OUTB BUS IN / OUT

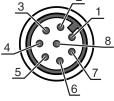
Electrical connection

Connection 1

Function	Configuration interface
	Connection to transmitter
	Signal IN
	Signal OUT
	Voltage supply
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

Pin Pin assignment

1	V+		
2	I/O 1		
3	GND		
4	IO-Link		
5	I/O 2		
6	RS 485 Tx+		
7	RS 485 Tx+		
8	FE/SHIELD		



Connection 2

Function	BUS IN
	BUS OUT
Type of connection	Connector
Thread size	M12
Туре	Female
Material	Metal
No. of pins	5 -pin
Encoding	B-coded

Electrical connection

Pin Pin assignment 1 V+ 2 Tx 3 PB GND 4 Tx+ 5 FE/SHIELD



LED	Display	Meaning
1	Green, continuous light	Operational readiness
	Green, flashing	Teach / error
2	Yellow, continuous light	Light path free, with function reserve
	Yellow, flashing	No function reserve
	Off	Object detected

Suitable transmitters

 Part no.	Designation	Article	Description
50118614	CML730i-T10-320.A- M12	Light curtain transmitter	Operating range: 0.3 9.5 m Connection: Connector, M12, Axial, 5 -pin

Part number code

Part designation: CML7XXi-YZZ-AAAA.BCCCDDD-EEEFFF

CML	Operating principle Measuring light curtain
7XXi	Series 720i: 720i series 730i: 730i series
Y	Device type T: transmitter R: receiver
22	Beam spacing 05: 5 mm 10: 10 mm 20: 20 mm 40: 40 mm
AAAA	Measurement field length [mm], dependent on beam spacing
В	Equipment A: Axial connector outlet R: Rear connector outlet
ccc	Interface L: IO-Link /CN: CANopen /PB: PROFIBUS /PN: PROFINET /CV: Analog current and voltage output /D3: RS 485 Modbus



Part number code



DDD	Special equipment -PS: Power Setting		
EEE	Electrical connection M12: M12 connector		
FFF -EX: Explosion protection			
	Note		
A	∜ A list with all available device types can be found on the Leuze website at www.leuze.com.		

Notes

Observe intended use!
 This product is not a safety sensor and is not intended as personnel protection. The product may only be put into operation by competent persons. Only use the product in accordance with its intended use.



For UL applications:

 For UL applications, use is only permitted in Class 2 circuits in accordance with the NEC (National Electric Code).
 These proximity switches shall be used with UL Listed Cable assemblies rated 30V, 0.5A min, in the field installation, or equivalent (categories: CYJV/ CYJV7 or PVVA/PVVA7)

Accessories

Connection technology - Connection cables

 Part no.	Designation	Article	Description
50132079	KD U-M12-5A-V1- 050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC

Connection technology - Y distribution cables

	Part no.	Designation	Article	Description
	50118183	K-Y1 M12A-5m- M12A-S-PUR	Interconnection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 5 -pin Connection 3: Connector, M12, Axial, Female, A-coded, 8 -pin Shielded: Yes Cable length fork 1: 5,000 mm Cable length fork 2: 150 mm Sheathing material: PUR

Accessories

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Mounting technology - Mounting brackets

 Part no.	Designation	Article	Description
 50142900	BT 700M.5-2SET	Mounting device set	Design of mounting device: Bracket mounting Fastening, at system: Through-hole mounting, T slotted hole Mounting bracket, at device: Screw type, Sliding block Type of mounting device: Rigid Material: Steel

Services

	Part no.	Designation	Article	Description
ц. С	S981001	CS10-S-110	Start-up support	Details: Performed at location of customer's choosing, duration: max. 10 hours. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses.
الم م	S981005	CS10-T-110	Product training	Details: Location and content to be agreed upon, duration: max. 10 hours. Conditions: Price not including travel costs and, if applicable, accommodation expenses.

	Note
6	the A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.