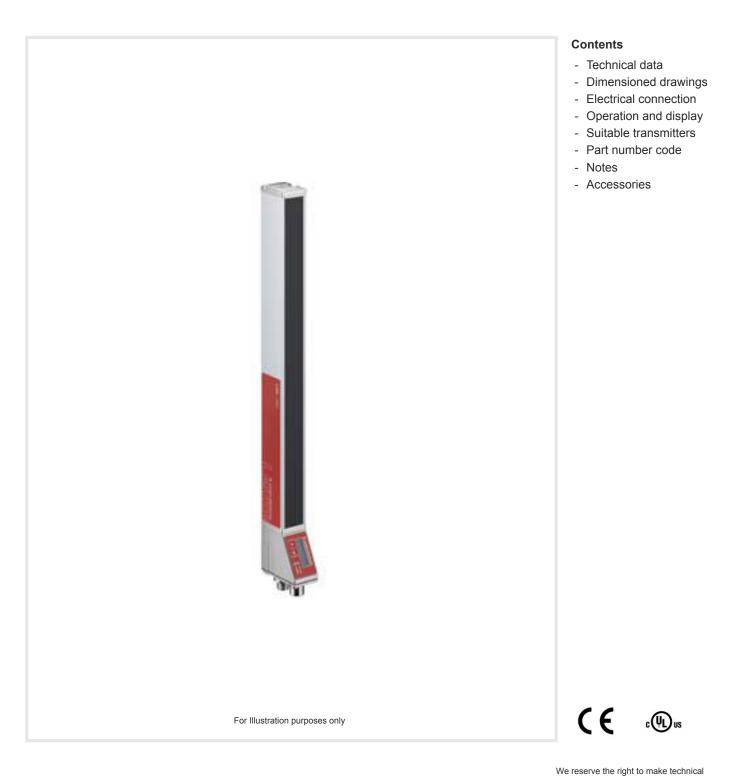


Technical data sheet Light curtain receiver Part no.: 50123306 CML730i-R05-2960.A/D3-M12



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 eng • 2025-04-04

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Technical data

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Basic data

730 Throughbeam principle Receiver 2x BT-NC sliding block Detection of transparent objects Object measurement Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning 0.1 4.5 m Guaranteed operating range 0.1 1.75 m
Receiver 2x BT-NC sliding block Detection of transparent objects Object measurement Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning 0.1 4.5 m Guaranteed operating range 0.1 1.75 m
2x BT-NC sliding block Detection of transparent objects Object measurement Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning 0.1 4.5 m Guaranteed operating range 0.1 1.75 m
Detection of transparent objects Object measurement Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning 0.1 4.5 m Guaranteed operating range 0.1 1.75 m
Object measurement Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning 0.1 4.5 m Guaranteed operating range 0.1 1.75 m
Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning 0.1 4.5 m Guaranteed operating range 0.1 1.75 m
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0.1 1.75 m
0.1 6 m
Typical operating range
2,960 mm
592 Piece(s)
5 mm
10 mm
Polarity reversal protection
Short circuit protected
Transient protection
18 30 V, DC
0 15 %, From U _B
0 600 mA, The specified values refer to the entire package consisting of trans- mitter and receiver.
2 Piece(s)
Inputs/outputs selectable
DC
Тур. U _в / 0 V
high: ≥6V
low: ≤ 4 V
6.07 ms
10 µs
RS 485 Modbus
Process
IO-Link

	IO-Link	
	Function	Configuration via software
		Service
С	onnection	
Nu	Imber of connections	2 Piece(s)
Pl	ug outlet	Axial
	Connection 1 Function	Configuration interface
	Tunction .	Connection to transmitter
		Signal IN
		Signal OUT
		Voltage supply
	Type of connection	Connector
	Thread size	M12
	Туре	Male
	Material No. of pins	Metal
	Encoding	8 -pin A-coded
	Connection 2	
	Function	BUS IN
		BUS OUT
	Type of connection	Connector
	Thread size Type	M12 Female
	Material	Metal
	No. of pins	5 -pin
	Encoding	B-coded
M	echanical data	
	esign	Cubic
	mension (W x H x L)	29 mm x 35.4 mm x 3,035 mm Metal
	ousing material etal housing	Aluminum
	ens cover material	Plastic
Ne	et weight	3,000 g
Но	ousing color	Silver
Ту	pe of fastening	Groove mounting
		Via optional mounting device
O	peration and display	
Τv	pe of display	LED
.,		OLED display
Nu	Imber of LEDs	2 Piece(s)
Ту	pe of configuration	Software
		Teach-in
Op	perational controls	Membrane keyboard
Er	nvironmental data	
Ar	nbient temperature, operation	-30 60 °C
An	nbient temperature, storage	-40 70 °C
Ce	ertifications	
De	egree of protection	IP 65
	otection class	
	oprovals	c UL US
	andards applied	IEC 60947-5-2

Technical data

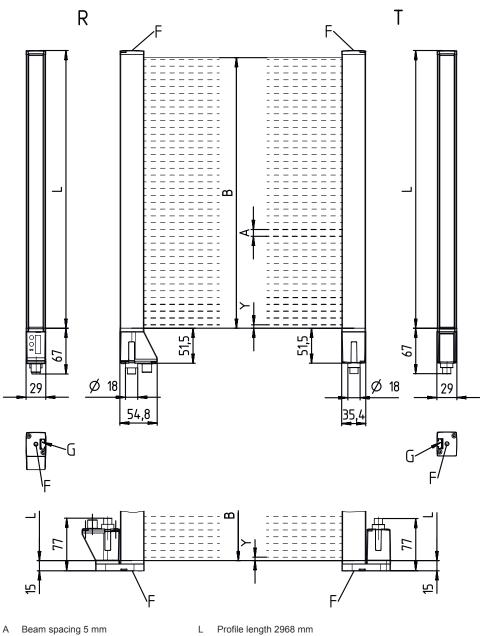
Customs tariff number	90314990
ECLASS 5.1.4	27270910
ECLASS 8.0	27270910
ECLASS 9.0	27270910
ECLASS 10.0	27270910
ECLASS 11.0	27270910
ECLASS 12.0	27270910
ECLASS 13.0	27270910
ECLASS 14.0	27270910
ECLASS 15.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
ETIM 9.0	EC002549
ETIM 10.0	EC002549

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Dimensioned drawings

All dimensions in millimeters



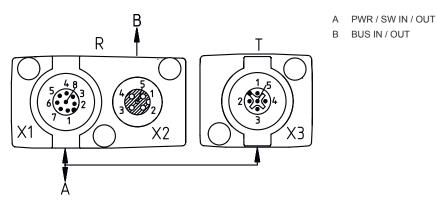
- Beam spacing 5 mm А
- В Measurement field length 2960 mm
- F M6 thread G Fastening groove
- Т R Receiver
 - 2.5 mm Υ

Transmitter

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Dimensioned drawings





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

1 2

3

4

5

Pin assignment V+ Tx-PB GND Tx+ FE/SHIELD

Operation and display

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

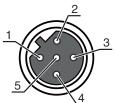
 Part no.	Designation	Article	Description
50118612	CML730i-T05- 2960.A-M12	Light curtain transmitter	Operating range: 0.1 4 m Connection: Connector, M12, Axial, 5 -pin

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