

Technical data sheet Light curtain receiver Part no.: 50133769 CML730i-R05-640.A/CV-PS-M12



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1/8

Technical data

Basic data

0	Readiness delay
roughbeam principle	Cycle time
eceiver	Response time pe
BT-NC sliding block	O and a state of a
etection of transparent films	Service interfac
etection of transparent objects	Туре
oject detection in film tube	
oject measurement	IO-Link
idiation of semi-transparent media	Function
15.	Connection
	Number of conne
	Plug outlet
	Flug Outlet
	Connection 1
	Function
nm	
	Type of connec
	Thread size
mm	Туре
	Material
	No. of pins
larity reversal protection	Encoding
ort circuit protected	
ansient protection	Connection 2
	Function
	Type of connec
30 V, DC	Thread size
15 %, From U _B	Туре
215 mA, The specified values refer	Material
1 0 0	No. of pins
	Encoding
	J
Piece(s)	Mechanical data
	Design
alog output	Dimension (W x H
24 mA	Housing material
24 MA	
44.57	Metal housing
11 V	-
11 V	Metal housing
	Metal housing Lens cover mater
11 V eely configurable	Metal housing Lens cover mater Net weight
	Metal housing Lens cover mater Net weight Housing color
	Metal housing Lens cover mater Net weight Housing color
eely configurable	Metal housing Lens cover mater Net weight Housing color
eely configurable 0 mA	Metal housing Lens cover mater Net weight Housing color Type of fastening Operation and c
eely configurable 0 mA 000 Ω	Metal housing Lens cover mater Net weight Housing color Type of fastening
eely configurable 0 mA 000 Ω Piece(s)	Metal housing Lens cover mater Net weight Housing color Type of fastening Operation and o Type of display
eely configurable 0 mA 000 Ω Piece(s) puts/outputs selectable	Metal housing Lens cover mater Net weight Housing color Type of fastening Operation and o Type of display Number of LEDs
eely configurable 0 mA 000 Ω Piece(s) outs/outputs selectable	Metal housing Lens cover mater Net weight Housing color Type of fastening Operation and o Type of display
eely configurable 0 mA 000 Ω Piece(s) buts/outputs selectable C p. U _B / 0 V C	Metal housing Lens cover mater Net weight Housing color Type of fastening Operation and o Type of display Number of LEDs Type of configura
eely configurable 0 mA 000 Ω Piece(s) puts/outputs selectable C p. U _B / 0 V	Metal housing Lens cover mater Net weight Housing color Type of fastening Operation and o Type of display Number of LEDs
eely configurable 0 mA 000 Ω Piece(s) buts/outputs selectable C p. U _B / 0 V C h: \geq 6V	Metal housing Lens cover mater Net weight Housing color Type of fastening Operation and o Type of display Number of LEDs Type of configura
eely configurable 0 mA 000 Ω Piece(s) buts/outputs selectable C p. U _B / 0 V C h: \geq 6V	Metal housing Lens cover materin Net weight Housing color Type of fastening Operation and of Type of display Number of LEDs Type of configurat Operational contr Environmental of
eely configurable 0 mA 000 Ω Piece(s) buts/outputs selectable C p. U _B / 0 V C h: \geq 6V	Metal housing Lens cover mater Net weight Housing color Type of fastening Operation and o Type of display Number of LEDs Type of configurat Operational contr
	tection of transparent objects ject detection in film tube ject measurement diation of semi-transparent media 4.5 m aranteed operating range 1.75 m 6 m obical operating range 0 mm 3 Piece(s) nm m harity reversal protection ort circuit protected insient protected insient protection 30 V, DC . 15 %, From U _B . 215 mA, The specified values refer he entire package consisting of trans- ter and receiver.

Leuze 450 ms 1.43 ms

Reduitiess delay	450 1115			
Cycle time	1.43 ms			
Response time per beam	10 µs			
Service interface				
Туре	IO-Link			
IO-Link				
Function	Configuration via software			
	Service			
Connection				
Number of connections	2 Piece(s)			
Plug outlet	Axial			
Connection 1				
Function	Configuration interface			
	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			
Connection 2				
Function	Connection to transmitter			
Type of connection	Connector			
Thread size	M12			
Туре	Female			
Material	Metal			
No. of pins	5 -pin			
Encoding	A-coded			
5				
Mechanical data				
Design	Cubic			
Dimension (W x H x L)	29 mm x 35.4 mm x 715 mm			
Housing material	Metal			
Metal housing	Aluminum			
Lens cover material	Plastic			
Net weight	850 g			
Housing color	Silver			
Type of fastening	Groove mounting			
.jpe et determing	Via optional mounting device			
Operation and display				
Type of display				
	OLED display			

Type of display	LED
	OLED display
Number of LEDs	2 Piece(s)
Type of configuration	Software
	Teach-in
Operational controls	Membrane keyboard
Environmental data	
Ambient temperature, operation	-30 60 °C
Ambient temperature, storage	-40 70 °C

Technical data

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Certifications

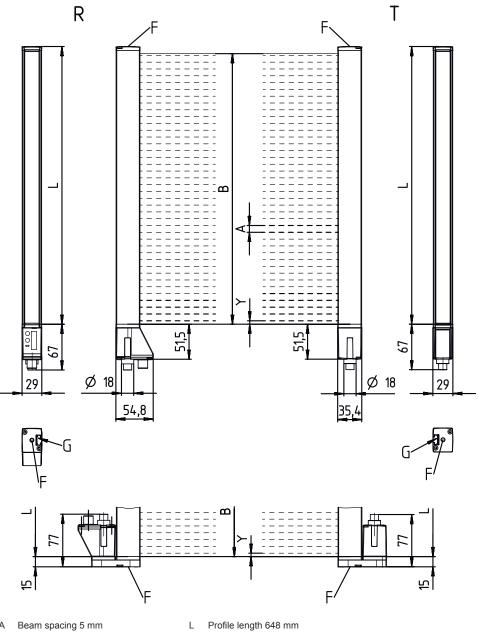
Degree of protection	IP 65
Protection class	III
Approvals	c UL US
Standards applied	IEC 60947-5-2

Classification

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

Dimensioned drawings

All dimensions in millimeters



Beam spacing 5 mm А В Measurement field length 640 mm

Fastening groove

M6 thread

F

G

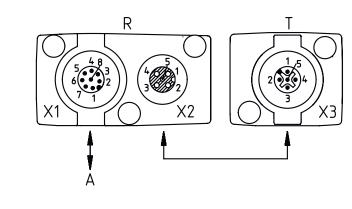
- Transmitter Т

 - R Receiver
 - 2.5 mm Υ

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Dimensioned drawings





A PWR / SW IN / OUT

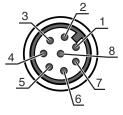
Electrical connection

Connection 1

Function	Configuration interface
	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	I/O 3	
7	OUT mA / V	
8	AGND	



Connection 2

Function	Connection to transmitter
Type of connection	Connector
Thread size	M12
Туре	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin Pin assignment

1	FE/SHIELD
2	V+
3	GND
4	RS 485 Tx+
5	RS 485 Tx-



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
50133770	CML730i-T05-640.A- PS-M12	Light curtain transmitter	Operating range: 0.1 4.5 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
DDD	Special equipment -PS: Power Setting
EEE	Electrical connection M12: M12 connector
FFF	-EX: Explosion protection
Note	
A list wi	th all available device types can be found on the Leuze website at www.leuze.com.

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Notes

Observe intended use!

✤ This product is not a safety sensor and is not intended as personnel protection.

 $\ensuremath{^{\ensuremath{\Downarrow}}}$ The product may only be put into operation by competent persons.

 $\ensuremath{^{\ensuremath{\Downarrow}}}$ Only use the product in accordance with its intended use.

	For UL applications:
A	 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
50135128	KD S-M12-8A-P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50129781	KDS DN-M12-5A- M12-5A-P3-050	Interconnection cable	Suitable for interface: DeviceNet, CANopen Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 5 -pin Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
1	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

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Accessories

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Configuration devices

 Part no.	Designation	Article	Description
50121098	SET MD12-US2-IL1.1 + Zub.	Diagnostics set	Interface: USB Connections: 2 Piece(s) Degree of protection: IP 20

Services

	Part no.	Designation	Article	Description
ц.	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
A	✤ A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.