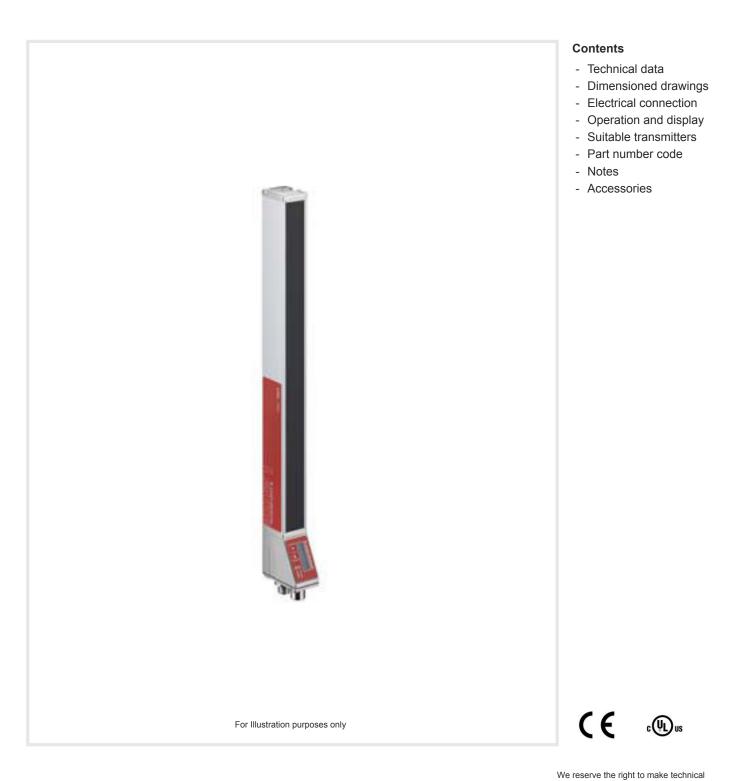


Technical data sheet Light curtain receiver Part no.: 50133763 CML730i-R05-240.A/CV-PS-M12



Leuze electronic GmbH + Co. KG info@leuze.com • www.leuze.com • changes
The Sensor People In der Braike 1, D-73277 Owen/Germany
Phone: +49 7021 573-0 • Fax: +49 7021 573-199 eng • 2025-04-05

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Technical data

Basic data

Basic data		Time behavior
Series	730	Readiness delay
Operating principle	Throughbeam principle	Cycle time
Device type	Receiver	Response time per b
Contains	2x BT-NC sliding block	
Application	Detection of transparent films	Service interface
	Detection of transparent objects	Туре
	Object detection in film tube	
	Object measurement	IO-Link
	Radiation of semi-transparent media	Function
Optical data		Connection
Operating range	0.1 4.5 m	Number of comments
Operating range	Guaranteed operating range	Number of connection
Operating range, transparent media	0.1 1.75 m	Plug outlet
Operating range limit	0.1 6 m	Connection 1
Dperating range limit	Typical operating range	Function
Measurement field length	240 mm	1 dilotion
Number of beams	48 Piece(s)	
Beam spacing	5 mm	
leasurement data		Type of connection
linimum object diameter	10 mm	Thread size
		Туре
Electrical data		Material
	Delerity several works stice	No. of pins
Protective circuit	Polarity reversal protection	Encoding
	Short circuit protected	
	Transient protection	Connection 2
Performance data		Function
Supply voltage U _B	18 30 V, DC	Type of connectio
Residual ripple	0 15 %, From U _R	Thread size
Open-circuit current	0 165 mA, The specified values refer	Туре
	to the entire package consisting of trans-	Material
	mitter and receiver.	No. of pins
• • •		Encoding
Outputs	1 Diago(a)	
Outputs Number of analog outputs	1 Piece(s)	Mechanical data
•	1 Piece(s)	Mechanical data
Number of analog outputs	1 Piece(s) Analog output	<mark>Mechanical data</mark> Design Dimension (W x H x
Number of analog outputs Analog outputs	.,	<mark>Mechanical data</mark> Design Dimension (W x H x Housing material
Number of analog outputs Analog outputs Type	Analog output	Mechanical data Design Dimension (W x H x Housing material Metal housing
Number of analog outputs Analog outputs Type Current	Analog output 0 24 mA	Mechanical data Design Dimension (W x H x Housing material Metal housing Lens cover material
Number of analog outputs Analog outputs Type Current	Analog output 0 24 mA	Mechanical data Design Dimension (W x H x Housing material Metal housing Lens cover material Net weight
Number of analog outputs Analog outputs Type Current Voltage	Analog output 0 24 mA	Mechanical data Design Dimension (W x H x Housing material Metal housing Lens cover material Net weight Housing color
Number of analog outputs Analog outputs Type Current Voltage Analog output 1 Type	Analog output 0 24 mA 0 11 V	Mechanical data Design Dimension (W x H x Housing material Metal housing Lens cover material Net weight
Number of analog outputs Analog outputs Type Current Voltage Analog output 1 Type Inputs/outputs selectable	Analog output 0 24 mA 0 11 V Freely configurable	Mechanical data Design Dimension (W x H x Housing material Metal housing Lens cover material Net weight Housing color
Number of analog outputs Analog outputs Type Current Voltage Analog output 1 Type Inputs/outputs selectable Output current, max.	Analog output 0 24 mA 0 11 V Freely configurable 100 mA	Mechanical data Design Dimension (W x H x Housing material Metal housing Lens cover material Net weight Housing color Type of fastening
Number of analog outputs Analog outputs Type Current Voltage Analog output 1 Type Inputs/outputs selectable Output current, max. Input resistance	Analog output 0 24 mA 0 11 V Freely configurable 100 mA 6,000 Ω	Mechanical data Design Dimension (W x H x Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and dis
Number of analog outputs Analog outputs Type Current Voltage Analog output 1 Type Inputs/outputs selectable Output current, max. Input resistance Number of inputs/outputs selectable	Analog output 0 24 mA 0 11 V Freely configurable 100 mA 6,000 Ω 2 3 Piece(s)	Mechanical data Design Dimension (W x H x Housing material Metal housing Lens cover material Net weight Housing color Type of fastening
Number of analog outputs Analog outputs Type Current Voltage Analog output 1 Type Inputs/outputs selectable Output current, max. Input resistance Number of inputs/outputs selectable Type	Analog output 0 24 mA 0 11 V Freely configurable 100 mA 6,000 Ω 9 3 Piece(s) Inputs/outputs selectable	Mechanical data Design Dimension (W x H x Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and dis Type of display
Number of analog outputs Analog outputs Type Current Voltage Analog output 1 Type Inputs/outputs selectable Output current, max. Input resistance Number of inputs/outputs selectable Voltage type, outputs	Analog output 0 24 mA 0 11 V Freely configurable 100 mA 6,000 Ω 3 Piece(s) Inputs/outputs selectable DC	Mechanical data Design Dimension (W x H x Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and dis Type of display Number of LEDs
Number of analog outputs Analog outputs Type Current Voltage Analog output 1 Type Inputs/outputs selectable Output current, max. Input resistance Number of inputs/outputs selectable Type Voltage type, outputs Switching voltage, outputs	Analog output 0 24 mA 0 11 V Freely configurable 100 mA 6,000 Ω 3 Piece(s) Inputs/outputs selectable DC Typ. U _B / 0 V	Mechanical data Design Dimension (W x H x Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and dis Type of display Number of LEDs
Number of analog outputs Analog outputs Type Current Voltage Analog output 1 Type Inputs/outputs selectable Output current, max. Input resistance Number of inputs/outputs selectable Type Voltage type, outputs Switching voltage, outputs Voltage type, inputs	Analog output 0 24 mA 0 11 V Freely configurable 100 mA 6,000 Ω 3 Piece(s) Inputs/outputs selectable DC Typ. U _B / 0 V DC	Mechanical data Design Dimension (W x H x Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and dis Type of display Number of LEDs Type of configuratio
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Number of analog outputs Analog outputs Type Current Voltage Analog output 1 Type Inputs/outputs selectable Output current, max. Input resistance Number of inputs/outputs selectable Type Voltage type, outputs Switching voltage, outputs Voltage type, inputs	Analog output 0 24 mA 0 11 V Freely configurable 100 mA 6,000 Ω 3 Piece(s) Inputs/outputs selectable DC Typ. U _B / 0 V DC high: $\geq 6V$	Mechanical data Design Dimension (W x H x Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and dis Type of display

Leuze 450 ms 1 ms Response time per beam 10 µs IO-Link Configuration via software Service Number of connections 2 Piece(s) Axial Configuration interface Signal IN Signal OUT Voltage supply Connector M12 Male Metal 8 -pin A-coded Connection to transmitter Connector M12 Female Metal 5 -pin

Mechanical data

Time behavior

Type of connection

Type of connection

Design	Cubic
Dimension (W x H x L)	29 mm x 35.4 mm x 315 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Net weight	450 g
Housing color	Silver
Type of fastening	Groove mounting
	Via optional mounting device

A-coded

Operation and 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	
Environmental data	
Ambient temperature, operation	-30 60 °C
Ambient temperature, storage	-40 70 °C

Technical data

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Certifications

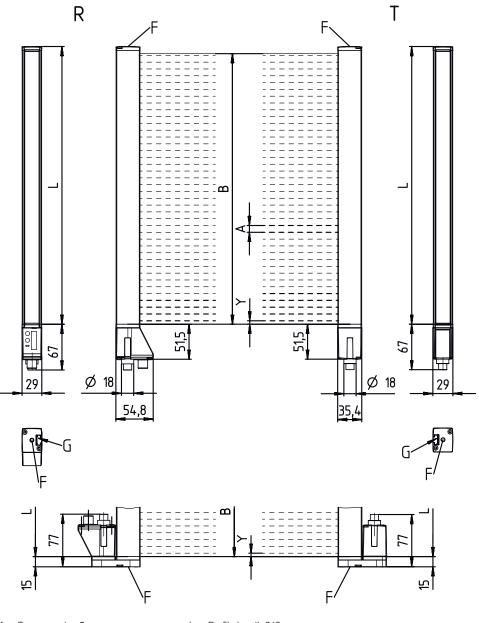
Degree of protection	IP 65
Protection class	III
Approvals	c UL US
Standards applied	IEC 60947-5-2

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



A Beam spacing 5 mm

- B Measurement field length 240 mm
- F M6 thread

G

Fastening groove

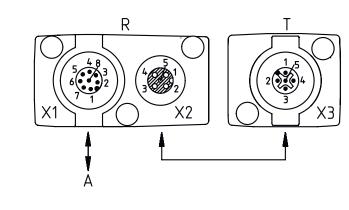
L Profile length 248 mm

- T Transmitter
- R Receiver
- Y 2.5 mm

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Dimensioned drawings





A PWR / SW IN / OUT

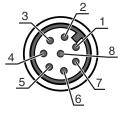
Electrical connection

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
50133764	CML730i-T05-240.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
ZZ	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:
Ð	 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. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 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.