Technical data sheet Light curtain transmitter Part no.: 50118918 CML730i-T05-560.R-M12





Leuze electronic GmbH + Co. KG info@leuze.com • www.leuze.com
 The Sensor People
 In der Braike 1, D-73277 Owen/Germany
 Phone: +49 7021 573-0 • Fax: +49 7021 573-199
 eng • 2025-04-03

We reserve the right to make technical changes

Technical data

Leuze

Basic data

Series	730
Operating principle	Throughbeam principle
Device type	Transmitter
Contains	Accessories for the use of the BT-2R1
Application	Detection of transparent objects
	Object measurement

Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning

Special version

Special version

Optical data

Operating range	0.1 4 m
Operating range	Guaranteed operating range
Operating range, transparent media	0.1 1.75 m
Operating range limit	0.1 6 m
Operating range limit	Typical operating range
Measurement field length	560 mm
Number of beams	112 Piece(s)
Beam spacing	5 mm
Light source	LED, Infrared
Wavelength	940 nm
Measurement data	
Minimum object diameter	10 mm

Minimum object diameter

Electrical data

Protective circuit

Short circuit protected		
Transient protection		

Polarity reversal protection

Performance data	
Supply voltage U _B	18 30 V, DC
Residual ripple	0 15 %, From U _B
Open-circuit current	0 165 mA, The specified values refer to the entire package consisting of trans- mitter and receiver.

Time behavior

Readiness delay	450 ms
Cycle time	1.32 ms

Connection

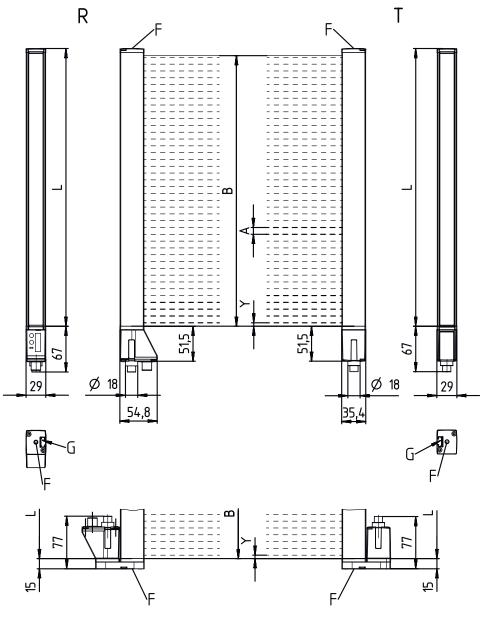
Number of connections	1 Piece(s)
Plug outlet	Rear side
Connection 1	
Function	Connection to receiver
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Mechanical data

DesignCubicDimension (W x H x L)29 mm x 35.4 mm x 583 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNet weight800 gHousing colorSilverType of fasteningGroove mounting Via optional mounting deviceOperation and displayLEDNumber of LEDs1 Piece(s)Environmental data-30 60 °CAmbient temperature, operation-30 60 °CAmbient temperature, storage-40 70 °CCertificationsIIIPortection classIIIApprovalsc UL USStandards applied19314990ECLASS 5.1.427270910ECLASS 9.027270910ECLASS 9.027270910ECLASS 10.027270910ECLASS 11.027270910ECLASS 13.027270910ECLASS 14.027270910ECLASS 15.027270910ECLASS 15.027270910ECLAS			
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Dimensioned drawings

All dimensions in millimeters



Beam spacing 5 mm А В

- Measurement field length 560 mm
- F M6 thread
- G Fastening groove
- Profile length 568 mm L Т
- Transmitter
- R Receiver
- 2.5 mm Υ





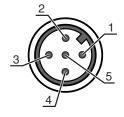
Electrical connection

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Connection 1

Function	Connection to receiver
Type of connection	Connector
Thread size	M12
Туре	Male
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	Continuous mode
	Off	No communication with the receiver / waiting for trigger
	green, flashing in sync with the measurement	Measurement frequency display

Suitable receivers

ounable h	Part no.	Designation	Article	Description
	50118998	CML730i-R05-560.R/ CN-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: CANopen Connection: Connector, M12, Rear side, 8 -pin
	50119216	CML730i-R05-560.R/ CV-M12	Light curtain receiver	Operating range: 0.1 4.5 m Analog outputs: 2 Piece(s), Voltage, Current Connection: Connector, M12, Rear side, 8 -pin
	50123359	CML730i-R05-560.R/ D3-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: RS 485 Modbus Connection: Connector, M12, Rear side, 8 -pin
	50119136	CML730i-R05-560.R/ L-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: IO-Link Connection: Connector, M12, Rear side, 8 -pin

Suitable receivers

 Part no.	Designation	Article	Description
50123134	CML730i-R05-560.R/ PB-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: PROFIBUS DP Connection: Connector, M12, Rear side, 8 -pin
50131741	CML730i-R05-560.R/ PN-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: PROFINET Connection: Connector, M12, Rear side, 8 -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 v	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.

 ${\ensuremath{\,\textcircled{\tiny \ensuremath{\,\Downarrow}}}}$ 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:
	& For UL applications, use is only permitted in Class 2 circuits in accordance with the NEC (National Electric Code).
Ĭ,	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 - 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
	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
R. C.	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

Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
ęł.	429029	BT-2RG	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 360° Material: Metal, Plastic

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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	No A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.