Technical data sheet Light curtain transmitter Part no.: 50118914 CML730i-T05-240.R-M12





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Technical data

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Basic data

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			
Special version				
Special version	Crossed-beam scanning			
	Diagonal-beam scanning			
	Parallel-beam scanning			
Optical data				
Operating range	Guaranteed operating range			
Operating range	0.1 4 m			
Operating range, transparent media	0.1 1.75 m			
Operating range limit	Typical operating range			
Operating range limit	0.1 6 m			
Measurement field length	240 mm			
Number of beams	48 Piece(s)			
Beam spacing	5 mm			
Light source	LED, Infrared			
LED light wavelength	940 nm			
Measurement data				
Minimum object diameter	10 mm			
Electrical data				
Protective circuit	Polarity reversal protection			
	Short circuit protected			
	Transient 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.			
Timing				
Readiness delay	450 ms			
Cycle time	1 ms			
Connection				
Number of connections	1 Piece(s)			

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

Design	Cubic
Dimension (W x H x L)	29 mm x 35.4 mm x 263 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

Operation and display

Type of display	LED
Number of LEDs	1 Piece(s)

Environmental data

Ambient temperature, operation	-30 60 °C
Ambient temperature, storage	-40 70 °C

Certifications

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

Classification

Customs tariff number	90314990	
eCl@ss 5.1.4	27270910	
eCl@ss 8.0	27270910	
eCl@ss 9.0	27270910	
eCl@ss 10.0	27270910	
eCl@ss 11.0	27270910	
ETIM 5.0	EC002549	
ETIM 6.0	EC002549	
ETIM 7.0	EC002549	

 Number of connections
 1 Piece(s)

 Plug outlet
 Rear side

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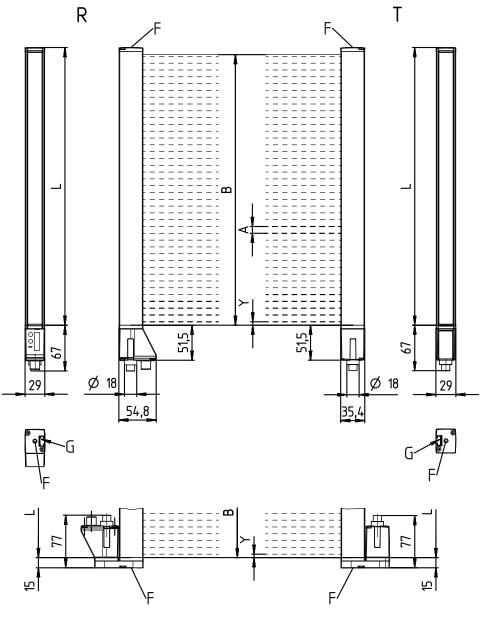
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Dimensioned drawings

All dimensions in millimeters



Beam spacing 5 mm А В

- Measurement field length 240 mm
- F M6 thread
- G Fastening groove
- Profile length 248 mm L Т
- Transmitter
- R Receiver
- 2.5 mm Υ



3/7



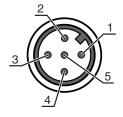
Electrical connection

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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	меаліпд
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

Suitable le	Part no.	Designation	Article	Description
	50118994	CML730i-R05-240.R/ CN-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: CANopen Connection: Connector, M12, Rear side, 8 -pin
	50119212	CML730i-R05-240.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
	50123355	CML730i-R05-240.R/ D3-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: RS 485 Modbus Connection: Connector, M12, Rear side, 8 -pin
	50119132	CML730i-R05-240.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
50123111	CML730i-R05-240.R/ PB-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: PROFIBUS DP Connection: Connector, M12, Rear side, 8 -pin
50131717	CML730i-R05-240.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: connector outlet, axial R: rear connector outlet
ccc	Interface L: IO-Link /CN: CANopen /PB: PROFIBUS /PN: PROFINET /CV: Analog current and voltage output /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	t 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:
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 - Interconnection cables

	Part no.	Designation	Article	Description
	50129781	KDS DN-M12-5A- M12-5A-P3-050	Interconnection cable	Suitable for interface: IO-Link, 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 + + + + + + + + + + + + + + + + +	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

Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
ęę.	429046	BT-2R1	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
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. Restrictions: No mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment.
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. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.

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