Technical data sheet Light curtain transmitter Part no.: 50119473 CML720i-T05-2000.R-M12



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The Sensor People In der Braike 1, 73277 Owen



We reserve the right to make technical changes

eng • 2020-12-17

Technical data

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29 mm x 35.4 mm x 2,023 mm

Basic data

Basic data		Mechanical data
Series	720	Design
Operating principle	Throughbeam principle	Dimension (W x H x L)
Device type	Transmitter	Housing material
Contains	Accessories for the use of the BT-2R1	Metal housing
Application	Object measurement	Lens cover material
		Net weight
Special version		Housing color
Special version	Crossed-beam scanning	Type of fastening
	Diagonal-beam scanning	
	Parallel-beam scanning	Operation and displa
Optical data		Type of display
Operating range	Guaranteed operating range	Number of LEDs
Operating range	0.1 3.5 m	
Operating range limit	Typical operating range	Environmental data
Operating range limit	0.1 4.5 m	Ambient temperature, o
Measurement field length	2,000 mm	Ambient temperature, s
Number of beams	400 Piece(s)	
Beam spacing	5 mm	Certifications
Light source	LED, Infrared	Degree of protection
LED light wavelength	940 nm	Protection class
		Certifications
Measurement data		Standards applied
Minimum object diameter	10 mm	Classification
Electrical data		Customs tariff number
Protective circuit	Polarity reversal protection	eCl@ss 5.1.4
	Short circuit protected	eCl@ss 8.0
	Transient protection	eCl@ss 9.0
		eCl@ss 10.0
Performance data		eCl@ss 11.0
Supply voltage U _B	18 30 V, DC	ETIM 5.0
Residual ripple	0 15 %, From U _B	ETIM 6.0
Open-circuit current	0 435 mA, The specified values refer to the entire package consisting of trans- mitter and receiver.	ETIM 7.0
Timing		
Readiness delay	450 ms	
Cycle time	12.4 ms	
Connection		
Number of connections	1 Piece(s)	
Plug outlet	Rear side	
Connection 1 Function	Connection to receiver	
T unction	Sync-input	
	Sync-input	

Voltage supply

Connector

M12

Male

Metal 5 -pin

A-coded

Metal housingAluminumLens cover materialPlasticNet weight2,100 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 classIIIClassificationEC 60947-5-2Classification27270910ecl@ss 5.1.427270910ecl@ss 8.027270910ecl@ss 9.027270910ecl@ss 11.027270910ETIM 5.0EC002549ETIM 6.0EC002549	Metal housingAluminumLens cover materialPlasticNet weight2,100 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 °CCertificationsIIIPotection classIIICertificationsc CSA USStandards appliedIEC 60947-5-2Classification27270910eCl@ss 5.1.427270910eCl@ss 8.027270910eCl@ss 9.027270910eCl@ss 11.027270910ETIM 5.0EC002549ETIM 6.0EC002549		20 11111 X 00. 1 11111 X 2,020 11111
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Cubic

Type of connection

Thread size

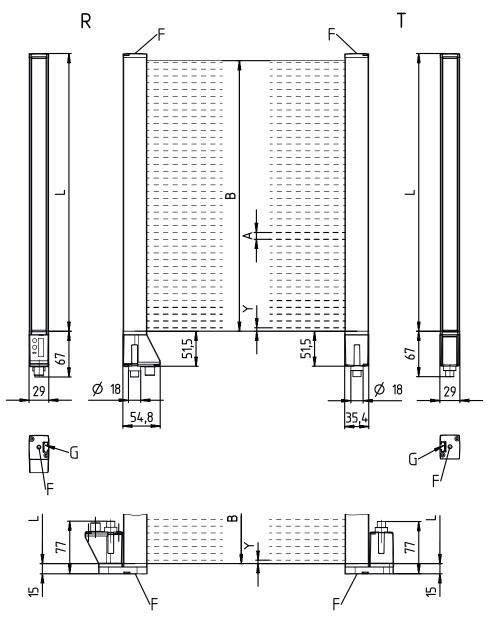
Туре

Material

No. of pins Encoding

Dimensioned drawings

All dimensions in millimeters



- В Measurement field length 2000 mm
- F M6 thread
- G Fastening groove
- Profile length 2008 mm L Т
- Transmitter
- R Receiver
- 2.5 mm Υ





Electrical connection

Leuze

2

Connection 1

Pin

Function	Connection to receiver
	Sync-input
	Voltage supply
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin assignment

1	FE/SHIELD	
2	V+	(((
3	GND	3
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

Suitable	Part no.	Designation	Article	Description
	50119928	CML720i-R05- 2000.R/CN-M12	Light curtain receiver	Operating range: 0.1 3.5 m Interface: CANopen Connection: Connector, M12, Rear side, 8 -pin
	50120146	CML720i-R05- 2000.R/CV-M12	Light curtain receiver	Operating range: 0.1 3.5 m Analog outputs: 2 Piece(s), Voltage, Current Connection: Connector, M12, Rear side, 8 -pin
	50123599	CML720i-R05- 2000.R/D3-M12	Light curtain receiver	Operating range: 0.1 3.5 m Interface: RS 485 Modbus Connection: Connector, M12, Rear side, 8 -pin
	50120063	CML720i-R05- 2000.R/L-M12	Light curtain receiver	Operating range: 0.1 3.5 m Interface: IO-Link Connection: Connector, M12, Rear side, 8 -pin

Suitable receivers

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Part no.	Designation	Article	Description
50122907	CML720i-R05- 2000.R/PB-M12	Light curtain receiver	Operating range: 0.1 3.5 m Interface: PROFIBUS DP Connection: Connector, M12, Rear side, 8 -pin
50131869	CML720i-R05- 2000.R/PN-M12	Light curtain receiver	Operating range: 0.1 3.5 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 /D3: RS 485 Modbus
DDD	Special equipment -PS: Power Setting
EEE	Electrical connection M12: M12 connector
FFF	-EX: Explosion protection
Note	
🗘 🗄 A list w	vith 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). These proximity switches shall be used with UL Listed Cable assemblies rated 30V, 0.5A min, in the field installation, or equivalent (categories: CYJV/
	I hese 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. 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
ęł.	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	Solution A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.