

Technical data sheet Light curtain transmitter Part no.: 50126400 CML720i-T10-2060.A-M12-EX



Leuze electronic GmbH + Co. KG The Sensor People In der Braike 1, 73277 Owen

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We reserve the right to make technical changes eng • 2020-12-23

Technical data

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30.7 mm x 40.3 mm x 2,093 mm

Via optional mounting device

Cubic

Metal

Plastic

Silver

LED

1 Piece(s)

-30 ... 60 °C

Aluminum

Groove mounting

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	2x BT-NC sliding block	Metal housing
Application	Object measurement	Lens cover material
		Housing color
Special version		Type of fastening
Special version	Crossed-beam scanning	
	Diagonal-beam scanning	
	Ex-protected	Operation and display
	Parallel-beam scanning	Type of display
		Number of LEDs
Optical data		
Operating range	Guaranteed operating range	Environmental data
Operating range	0.3 7 m	Ambient temperature, operation
Operating range limit	Typical operating range	Ambient temperature, storage
Operating range limit	0.2 9 m	
Measurement field length	2,060 mm	Ex specification
Number of beams	206 Piece(s)	Ex-zone
Beam spacing	10 mm	
Light source	LED, Infrared	Ex device group
LED light wavelength	940 nm	
Measurement data		Certifications
		Degree of protection
Minimum object diameter	20 mm	Protection class
Electrical data		Standards applied
Protective circuit	Polarity reversal protection	Classification
	Short circuit protected	Customs tariff number
	Transient protection	eCl@ss 5.1.4
		eCl@ss 8.0
Performance data		eCl@ss 9.0
Supply voltage U _B	18 30 V, DC	eCl@ss 10.0
Residual ripple	0 15 %, From U _B	eCl@ss 11.0
Open-circuit current	0 435 mA, The specified values refer to the entire package consisting of trans-	ETIM 5.0
	mitter and receiver.	ETIM 6.0
		ETIM 7.0
Timing		
Readiness delay	450 ms	
Cycle time	6.64 ms	
Connection		
Number of connections	1 Piece(s)	
Plug outlet	Axial	
Connection 1		
Eunotion		

Ambient temperature, storage	-40 70 °C	
Ex specification		
Ex-zone	2	
	22	
Ex device group	II	
Certifications		
Degree of protection	IP 65	
Protection class	III	
	IEC 60947-5-2	
Standards applied	IEC 60947-5-2	
Classification		
Classification Customs tariff number	IEC 60947-5-2 90314990 27270910	
Classification	90314990	
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No. of pins Encoding

Thread size

Туре Material

Type of connection

Function

Connection to receiver

Sync-input Voltage supply

Connector

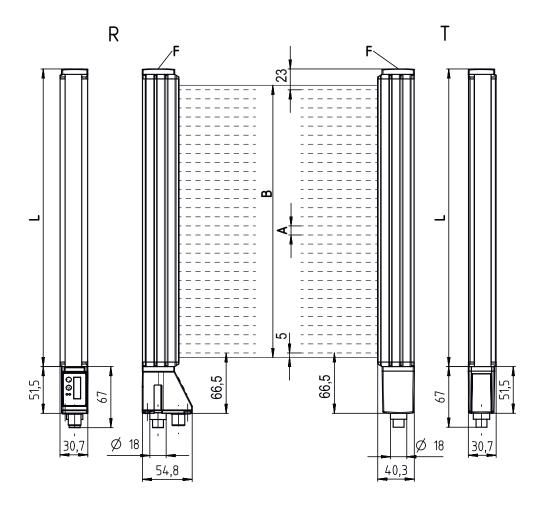
M12 Male

Metal 5 -pin

A-coded

Dimensioned drawings

All dimensions in millimeters





- A Beam spacing 10 mm
- B Measurement field length 2060 mm
- F M6 thread
- G Fastening groove

- L Profile length 2088 mm
- T Transmitter
- R Receiver



A PWR / SW IN / OUTB BUS IN / OUT

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Electrical connection

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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-	
		<u> </u>

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

 Part no.	Designation	Article	Description
50126369	CML720i-R10- 2060.A/CN-M12-EX	Light curtain receiver	Operating range: 0.3 7 m Interface: CANopen, IO-Link Connection: Connector, M12, Axial, 8 -pin

Part number code

Part designation: CML7XXi-YZZ-AAAA.BCCCDDD-EEEFFF

erating principle asuring light curtain		
ries Di: 720i series Di: 730i series		
vice type ransmitter receiver		
am spacing 5 mm 10 mm 20 mm 40 mm		
Measurement field length [mm], dependent on beam spacing		
uipment connector outlet, axial rear connector outlet		
a ri Di Di Di Di Di V V V V V V V V V V V V		

Part number code



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
Να	ote
6	A list 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.
	∜ The product may only be put into operation by competent persons.
<u> </u>	∜ Only use the product in accordance with its intended use.

For UL applications:	
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✤ 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

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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

Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
RR.	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

Configuration devices

Accessories

	Part no.	Designation	Article	Description
165	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
J.	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

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