



the sensor people





Figure can vary

Part no.: 50126394 CML720i-T10-1100.A-M12-EX Light curtain transmitter





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Technical data

Basic data				
Series	720			
Operating principle	Throughbeam principle			
Device type	Transmitter			
Contains	2x BT-NC sliding block			
Application	Object measurement			
Special design				
Special design	Crossed-beam scanning Diagonal-beam scanning Ex-protected Parallel-beam scanning			
Ontire I dete				
Optical data Operating range	Guaranteed operating range			
Operating range Operating range	0.3 7 m			
Operating range limit	Typical operating range			
Operating range limit Operating range limit	0.2 9 m			
Measurement field length	1,100 mm			
Number of beams	110 Piece(s)			
Beam spacing	10 mm			
Light source	LED , Infrared			
LED light wavelength	940 nm			
LED light wavelength	940 11111			
••				
Measurement data				
Minimum object diameter	20 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	0 270 mA , The specified values refer to the entire package consisting of transmitter and receiver.			
Timing				
Readiness delay	450 ms			
Cycle time	3.76 ms			
Connection				
Number of connections	ections 1 Piece(s)			
Plug outlet	Axial			



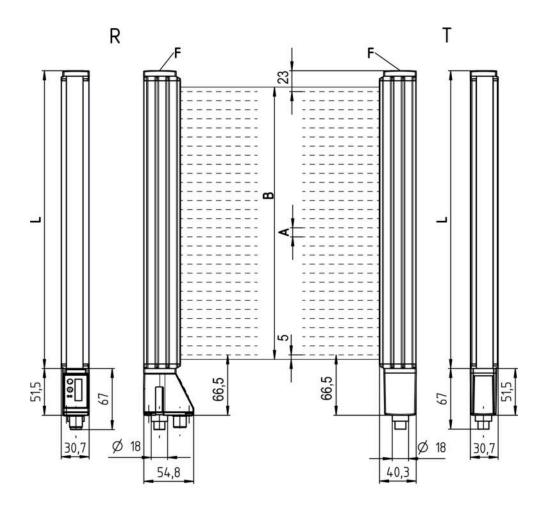
Connection 1				
Function	Connection to receiver Sync-input Voltage supply			
Type of connection	Connector			
Thread size	M12			
Туре	Male			
Material	Metal			
No. of pins	5 -pin			
Encoding	A-coded			
lechanical data				
esign	Cubic			
imension (W x H x L)	30.7 mm x 40.3 mm x 1,133 mm			
ousing material	Metal , Aluminum			
ens cover material	Plastic			
ousing color	Silver			
ype of fastening	Groove mounting Via optional mounting device			
manation and disular				
peration and display ype of display	LED			
umber of LEDs	1 Piece(s)			
uniber of LLD3	111666(3)			
invironmental data				
mbient temperature, operation	-30 60 °C			
mbient temperature, storage	-40 70 °C			
x specification				
x-zone	2 22			
x device group	II .			
Certifications				
egree of protection	IP 65			
tection class III				
tandards applied	IEC 60947-5-2			
Classification				
ustoms tariff number	90314990			

Classification		
Customs tariff number	90314990	
eCl@ss 8.0	27270910	
eCl@ss 9.0	27270910	
ETIM 5.0	EC002549	
ETIM 6.0	EC002549	

Dimensioned drawings

All dimensions in millimeters









- A Beam spacing 10 mm
- B Measurement field length 1110 mm
- F M6 thread
- G Fastening groove
- L Profile length 1128 mm
- T Transmitter
- R Receiver



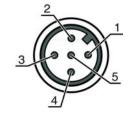
A PWR / SW IN/OUT B BUS IN / OUT



Electrical connection

Connection 1	
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	Pin assignment
1	FE/SHIELD
2	V+
3	GND
4	RS 485 Tx+
5	RS 485 Tx-



Operation and display

LEDs

	LED	Display	Meaning
	1	Green, continuous light	Continuous mode
1		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
	CML720i- R10-1100.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

CML	Operating principle: Measuring light curtain
7XXi	Series: 720i: 720i series 730i: 730i series

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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: 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 with all available device types can be found on the Leuze electronic 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.
- · 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/CYJV7 or PVVA/PVVA7)

Accessories

Connection technology - Interconnection cables

Part no.	Designation	Article	Description
	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	Contains: 2x mounting brackets, 1 teach template, 4 M6 x 10 screws 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
EE.	429046	BT-2R1	Mounting bracket set	Contains: 2x BT-R swivel mount, 1 cylinder for mounting on the light curtain Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 360° Material: Metal, Plastic

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.

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

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