

Technical data sheet Light curtain transmitter Part no.: 50126401

CML720i-T10-2220.A-M12-EX



The Sensor People In der Braike 1, 73277 Owen

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Technical data

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Basic data

Basic data				
Series	720			
Operating principle	Throughbeam principle			
Device type	Transmitter			
Contains	2x BT-NC sliding block			
Application	Object measurement			
Special version				
Special version	Crossed-beam scanning			
	Diagonal-beam scanning			
	Ex-protected			
	Parallel-beam scanning			
Optical data				
Operating range	Guaranteed operating range			
Operating range	0.3 7 m			
Operating range limit	Typical operating range			
Operating range limit	0.2 9 m			
Measurement field length	2,220 mm			
Number of beams	222 Piece(s)			
Beam spacing	10 mm			
Light source	LED, Infrared			
	LED, Infrared 940 nm			
Light source				
Light source LED light wavelength Measurement data	940 nm			
Light source LED light wavelength Measurement data Minimum object diameter	940 nm			
Light source LED light wavelength Measurement data Minimum object diameter Electrical data	940 nm 20 mm			
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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			

Mechanical data

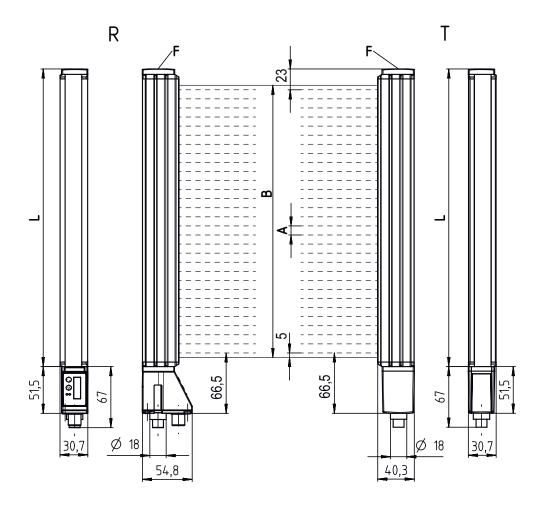
Design	Cubic
Dimension (W x H x L)	30.7 mm x 40.3 mm x 2,253 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Housing color	Silver
Type of fastening	Groove mounting
	Via optional mounting device
Operation and display	
Type of display	LED
Number of LEDs	1 Piece(s)
Environmental data	
Ambient temperature, operation	-30 60 °C
Ambient temperature, storage	-40 70 °C
Ex specification	
Ex-zone	2
	22
Ex device group	II
O still set is a s	
Certifications	
Degree of protection	IP 65
Protection class	III
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

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Dimensioned drawings

All dimensions in millimeters



Profile length 2248 mm

Transmitter

Receiver



- A Beam spacing 10 mm
- B Measurement field length 2220 mm
- F M6 thread
- G Fastening groove

G

- X3
- 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-	

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
ļ	50126370	CML720i-R10- 2220.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
asurement 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
Note	
h	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.
	∜ 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
	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
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

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
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. 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

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

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