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Technical data sheet Light curtain transmitter Part no.: 50126350 CML720i-T10-460.A-M12-EX



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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 493 mm

Via optional mounting device

Racio data

	Mechanical data
720	Design
Throughbeam principle	Dimension (W x H x L)
Transmitter	Housing material
2x BT-NC sliding block	Metal housing
Object measurement	Lens cover material Housing color
	Type of fastening
Crossed-beam scanning	
-	
8	Operation and display
	Type of display
· • • • • • • • • • • • • • • • • • • •	Number of LEDs
Guaranteed operating range	Environmental data
	Ambient temperature, oper
	Ambient temperature, stor
,, , , , ,	· · · · · · · · · · · · · · · · · · ·
	Ex specification
	Ex-zone
	EX-2011e
	Ex dovico group
,	Ex device group
	Certifications
	Degree of protection
20 mm	Protection class
	Standards applied
Polarity reversal protection	Classification
Short circuit protected	Customs tariff number
Transient protection	eCl@ss 5.1.4
	eCl@ss 8.0
	eCl@ss 9.0
	eCl@ss 10.0
· D	eCl@ss 11.0
	ETIM 5.0
mitter and receiver.	ETIM 6.0
	ETIM 7.0
450 ms	
1.84 ms	
1 Piece(s)	
	 Throughbeam principle Transmitter 2x BT-NC sliding block Object measurement Crossed-beam scanning Diagonal-beam scanning Ex-protected Parallel-beam scanning Guaranteed operating range 0.3 7 m Typical operating range 0.2 9 m 460 mm 46 Piece(s) 10 mm LED, Infrared 940 nm 20 mm 20 mm Relative protection Short circuit protected Transient and receiver. 450 ms

Connection to receiver

Sync-input Voltage supply

Connector

M12 Male

Metal 5 -pin

A-coded

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
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

EC002549

EC002549

Cubic

Metal

Plastic

Silver

Aluminum

Groove mounting

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Connection 1 Function

Type of connection

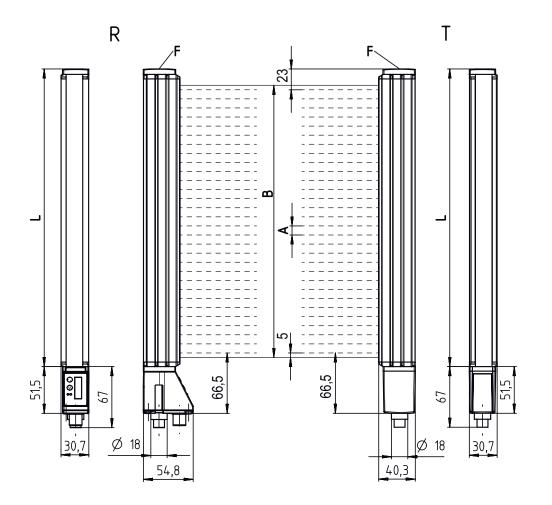
Thread size

No. of pins Encoding

Туре Material

Dimensioned drawings

All dimensions in millimeters





- A Beam spacing 10 mm
- B Measurement field length 460 mm
- F M6 thread
- G Fastening groove
- R Receiver

L

Т

Profile length 488 mm

Transmitter





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
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
50126349	CML720i-R10-460.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
Note	
f	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

Accessories

 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

	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

to 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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