## SMART SENSOR BUSINESS

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Part no.: 50126393 CML720i-T10-940.A-M12-EX Light curtain transmitter



Figure can vary

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## Part no.: 50126393 – CML720i-T10-940.A-M12-EX – Light curtain transmitter

#### **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		
Optical data	Oueresteed encetting reaso		
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	940 mm		
Number of beams	940 Piece(s)		
Beam spacing	10 mm		
Light source	LED , Infrared		
LED light wavelength	940 nm		
Measurement data			
Minimum object diameter	20 mm		
Electrical data			
Protective circuit	Polarity reversal protection Short circuit protected Transient protection		
Performance data			
Supply voltage UB	18 30 V , DC		
Residual ripple	0 15 % , From U <sub>B</sub>		
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	3.28 ms		
Connection			
Connection Number of connections	1 Piece(s)		

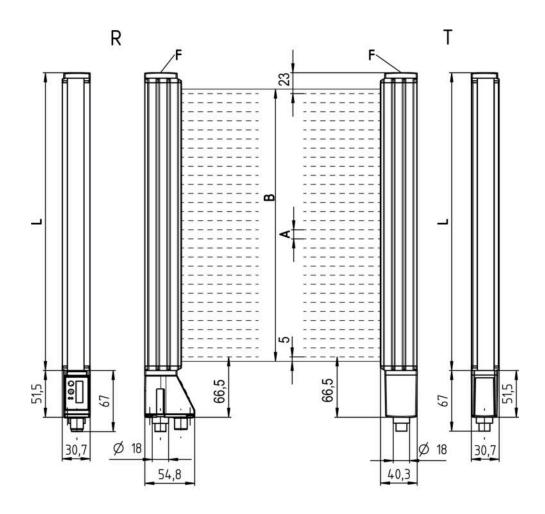
### Part no.: 50126393 – CML720i-T10-940.A-M12-EX – Light curtain transmitter

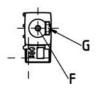
Connection 1	
Function	Connection to receiver Sync-input Voltage supply
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded
echanical data	
esign	Cubic
imension (W x H x L)	30.7 mm x 40.3 mm x 973 mm
ousing material	Metal, Aluminum
ens cover material	Plastic
ousing color	Silver
/pe of fastening	Groove mounting Via optional mounting device
peration and display	
/pe of display	LED
umber of LEDs	1 Piece(s)
nvironmental data	
mbient temperature, operation	-30 60 °C
mbient temperature, storage	-40 70 °C
x specification	
x-zone	2
	22
x device group	11
ertifications	
egree of protection	IP 65
rotection class	III
tandards applied	IEC 60947-5-2
lassification	
ustoms tariff number	90314990
Cl@ss 8.0	27270910
Cl@ss 9.0	27270910
TIM 5.0	EC002549
TIM 6.0	EC002549

#### **Dimensioned drawings**

All dimensions in millimeters

Part no.: 50126393 – CML720i-T10-940.A-M12-EX – Light curtain transmitter







- A Beam spacing 10 mm
- B Measurement field length 940 mm
- F M6 thread
- G Fastening groove
- L Profile length 968 mm
- T Transmitter
- R Receiver



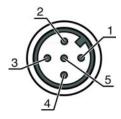
A PWR / SW IN/OUT B BUS IN / OUT

## Part no.: 50126393 – CML720i-T10-940.A-M12-EX – Light curtain transmitter

#### **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
	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
50126362	CML720i- R10-940.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
	Series: 720i: 720i series 730i: 730i series

### Part no.: 50126393 – CML720i-T10-940.A-M12-EX – Light curtain transmitter

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
50129781	KDS DN-M12-5A- M12-5A-P3-050		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
L L L L	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
R.	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.	Ŭ	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

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