### **Technical data sheet Light curtain transmitter** Part no.: 50118642 CML730i-T20-2230.A-M12





We reserve the right to make technical changes

### **Technical data**

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#### **Basic data**

730		
Throughbeam principle		
Transmitter		
2x BT-NC sliding block		
Detection of transparent objects		
Object measurement		
Crossed-beam scanning		
Diagonal-beam scanning		
Parallel-beam scanning		
0.3 9.5 m		
Guaranteed operating range		
0.3 3.5 m		
0.2 12 m		
Typical operating range		
2,230 mm		
112 Piece(s)		
20 mm		
LED, Infrared		
940 nm		
30 mm		
Polarity reversal protection		
Short circuit protected		
Transient protection		
18 30 V, DC		
0 15 %, From U <sub>B</sub>		
0 435 mA, The specified values refer to the entire package consisting of trans- mitter and receiver.		
450 ms		
1.32 ms		

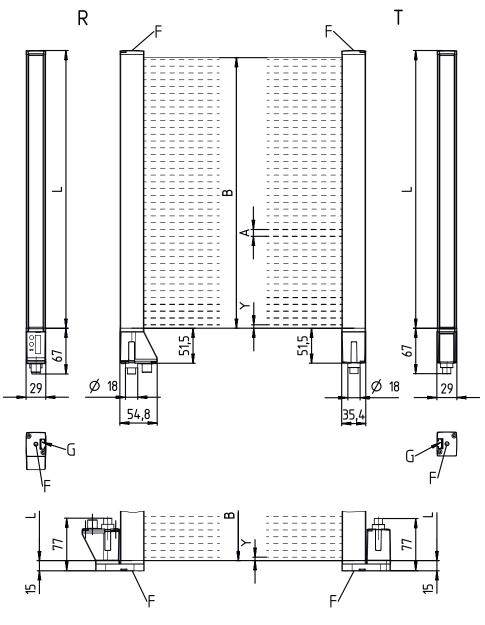
Ν	umber of connections	1 Piece(s)
Plug outlet		Axial
	Connection 1	
	Function	Connection to receiver
	Type of connection	Connector
	Thread size	M12
	Туре	Male
	Material	Metal
	No. of pins	5 -pin
	Encoding	A-coded

#### Mechanical data

Design	Cubic
Dimension (W x H x L)	29 mm x 35.4 mm x 2,315 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Net weight	2,250 g
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
Certifications	
Degree of protection	IP 65
Protection class	III
Certifications	c UL US
Standards applied	IEC 60947-5-2
Standards applied Classification	IEC 60947-5-2
	IEC 60947-5-2 90314990
Classification	
Classification Customs tariff number	90314990
Classification Customs tariff number ECLASS 5.1.4	90314990 27270910
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### **Dimensioned drawings**

All dimensions in millimeters



- Beam spacing 20 mm А
- В Measurement field length 2230 mm
- F M6 thread
- G Fastening groove
- Profile length 2248 mm L Т
- Transmitter
- R Receiver
- 5 mm Υ





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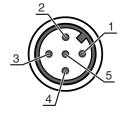
### **Electrical connection**

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#### **Connection 1**

Function	Connection to receiver
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

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**

Suitable le	Part no.	Designation	Article	Description
	50118724	CML730i-R20- 2230.A/CN-M12	Light curtain receiver	Operating range: 0.3 9.5 m Interface: CANopen Connection: Connector, M12, Axial, 8 -pin
	50118899	CML730i-R20- 2230.A/CV-M12	Light curtain receiver	Operating range: 0.3 9.5 m Analog outputs: 2 Piece(s), Voltage, Current Connection: Connector, M12, Axial, 8 -pin
	50123339	CML730i-R20- 2230.A/D3-M12	Light curtain receiver	Operating range: 0.3 9.5 m Interface: RS 485 Modbus Connection: Connector, M12, Axial, 8 -pin
	50118805	CML730i-R20- 2230.A/L-M12	Light curtain receiver	Operating range: 0.3 9.5 m Interface: IO-Link Connection: Connector, M12, Axial, 8 -pin

### Suitable receivers

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	Part no.	Designation	Article	Description
Į	50123188	CML730i-R20- 2230.A/PB-M12	Light curtain receiver	Operating range: 0.3 9.5 m Interface: PROFIBUS DP Connection: Connector, M12, Axial, 8 -pin
ļ	50131804	CML730i-R20- 2230.A/PN-M12	Light curtain receiver	Operating range: 0.3 9.5 m Interface: PROFINET 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
Y	Device type T: transmitter R: receiver
22	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: Axial connector outlet 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 w	ith 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.

 $\ensuremath{^{\ensuremath{\Downarrow}}}$  The product may only be put into operation by competent persons.

 $\ensuremath{^{\ensuremath{\Downarrow}}}$  Only use the product in accordance with its intended use.

	For UL applications:
-	b For UL applications, use is only permitted in Class 2 circuits in accordance with the NEC (National Electric Code).
Ĭ,	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: 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

### Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
1.1. 1.1	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

### Configuration devices

	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

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### Accessories

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### 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.
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.

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