# Leuze

# **Technical data sheet Light curtain transmitter** Part no.: 50133768

CML730i-T05-480.A-PS-M12



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We reserve the right to make technical changes eng • 2025-04-05

# **Technical data**

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#### **Basic data**

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Optical data		
	Radiation of semi-transparent media	
	Object measurement	
	Object detection in film tube	
	Detection of transparent objects	
Application	Detection of transparent films	
Contains	2x BT-NC sliding block	
Device type	Transmitter	
Operating principle	Throughbeam principle	
Series	730	

Operating range	0.1 4.5 m	
Operating range	Guaranteed operating range	
Operating range, transparent media	0.1 1.75 m	
Operating range limit	0.1 6 m	
Operating range limit	Typical operating range	
Measurement field length	480 mm	
Number of beams	96 Piece(s)	
Beam spacing	5 mm	
Light source	LED, Infrared	
Wavelength	940 nm	

10 mm

Polarity reversal protection

#### Measurement data

Minimum object diameter

#### **Electrical data**

Protective circuit

	Short circuit protected
	Transient protection
Performance data	
Supply voltage U <sub>B</sub>	18 30 V, DC
Residual ripple	0 15 %, From U <sub>B</sub>
Open-circuit current	0 165 mA, The specified values refer to the entire package consisting of trans- mitter and receiver.

450 ms

1.16 ms

1 Piece(s)

Axial

#### **Time behavior**

Readiness delay Cycle time

#### Connection

Number of connections Plug outlet

#### **Connection 1** Fu

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 555 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Net weight	650 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

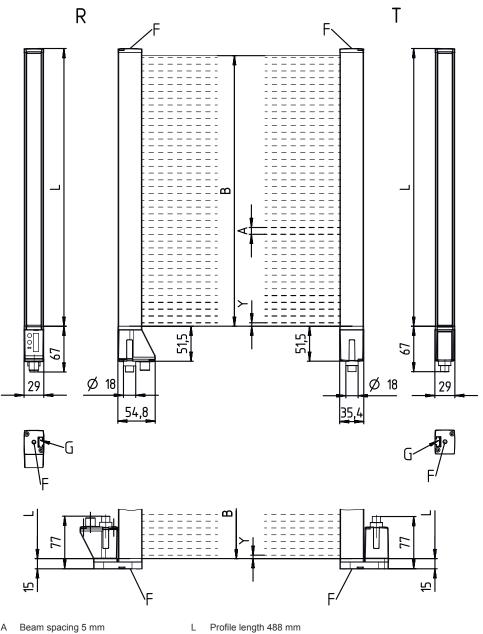
Degree of protection	IP 65
Protection class	III
Approvals	c UL US
Standards applied	IEC 60947-5-2

#### Classification

Customs tariff number	90314990
ECLASS 5.1.4	27270910
ECLASS 8.0	27270910
ECLASS 9.0	27270910
ECLASS 10.0	27270910
ECLASS 11.0	27270910
ECLASS 12.0	27270910
ECLASS 13.0	27270910
ECLASS 14.0	27270910
ECLASS 15.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
ETIM 9.0	EC002549
ETIM 10.0	EC002549

# **Dimensioned drawings**

All dimensions in millimeters



Beam spacing 5 mm А

- В Measurement field length 480 mm
- F M6 thread
- G Fastening groove
- Transmitter Т
- R Receiver
- 2.5 mm Υ



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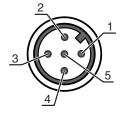
# **Electrical connection**

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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

 Part no.	Designation	Article	Description
50133767	CML730i-R05-480.A/ CV-PS-M12	Light curtain receiver	Operating range: 0.1 4.5 m Analog outputs: 1 Piece(s), Freely configurable 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			

## 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	
<b>f</b>	t 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:
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✤ 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: 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

## Accessories

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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

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