# Leuze

# Technical data sheet Light curtain transmitter

# Part no.: 50133774 CML730i-T05-960.A-PS-M12



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# **Technical data**

#### **Basic data**

Plug outlet

		Even etile et
Series	730	Function
Operating principle	Throughbeam principle	Type of connect
Device type	Transmitter	Thread size
Contains	2x BT-NC sliding block	Туре
Application	Detection of transparent films	Material
	Detection of transparent objects	No. of pins
	Object detection in film tube	Encoding
	Object measurement	Mechanical dat
	Radiation of semi-transparent media	
Ordinal data		Design
Optical data		Dimension (W x H
Operating range	Guaranteed operating range	Housing material
Operating range	0.1 4.5 m	Metal housing
Operating range, transparent media	0.1 1.75 m	Lens cover mater
Operating range limit	Typical operating range	Net weight
Operating range limit	0.1 6 m	Housing color
Measurement field length	960 mm	Type of fastening
Number of beams	192 Piece(s)	
Beam spacing	5 mm	Operation and
Light source	LED, Infrared	
LED light wavelength	940 nm	Type of display
Measurement data		Number of LEDs
Minimum object diameter	10 mm	
		Ambient tempera
Electrical data		Ambient tempera
Protective circuit	Polarity reversal protection	Certifications
	Short circuit protected	
	Transient protection	Degree of protect
		Protection class
Performance data		Certifications
Supply voltage U <sub>B</sub>	18 30 V, DC	Standards applie
Residual ripple	0 15 %, From U <sub>B</sub>	Cleasification
Open-circuit current	0 270 mA, The specified values refer to the entire package consisting of trans-	Classification
	mitter and receiver.	Customs tariff nu
		eCl@ss 5.1.4
Timing		eCl@ss 8.0
Readiness delay	450 ms	eCl@ss 9.0
Cycle time	2.12 ms	eCl@ss 10.0
		eCl@ss 11.0
Connection		ETIM 5.0
Number of connections	1 Diago(a)	ETIM 6.0
Number of connections	1 Piece(s)	ETIM 7.0

Axial

**Connection 1** Connection to receiver ection Connector M12 Male Metal 5 -pin

A-coded

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#### ata

Design	Cubic
Dimension (W x H x L)	29 mm x 35.4 mm x 1,035 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Net weight	1,100 g
Housing color	Silver
Type of fastening	Groove mounting
	Via optional mounting device

#### display

Type of display	LED
Number of LEDs	1 Piece(s)

#### I data

Ambient temperature, operation	-30 60 °C
Ambient temperature, storage	-40 70 °C

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

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	

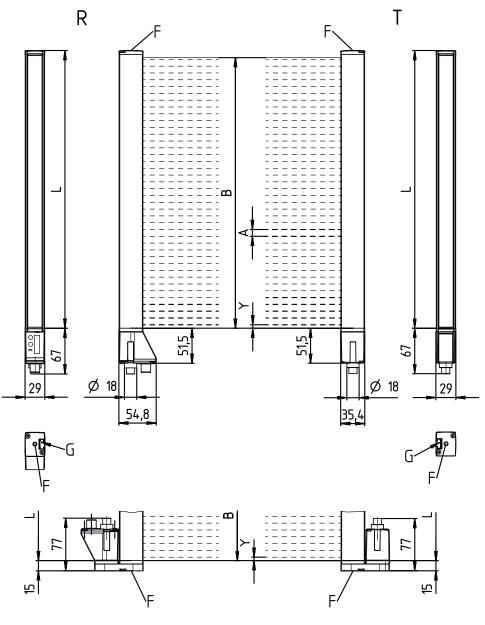
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We reserve the right to make technical changes eng • 2020-12-26

# **Dimensioned drawings**

All dimensions in millimeters



Beam spacing 5 mm А В

- Measurement field length 960 mm
- F M6 thread
- G Fastening groove
- Profile length 968 mm L Т
- Transmitter
- R Receiver
- 2.5 mm Υ





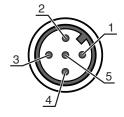
# **Electrical connection**

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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
50133773	CML730i-R05-960.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: connector outlet, axial 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>h</b> A list	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.
<u> </u>	∜ 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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# Accessories

# 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
RR.	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

### 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 website in the Download tab of the article detailed page.