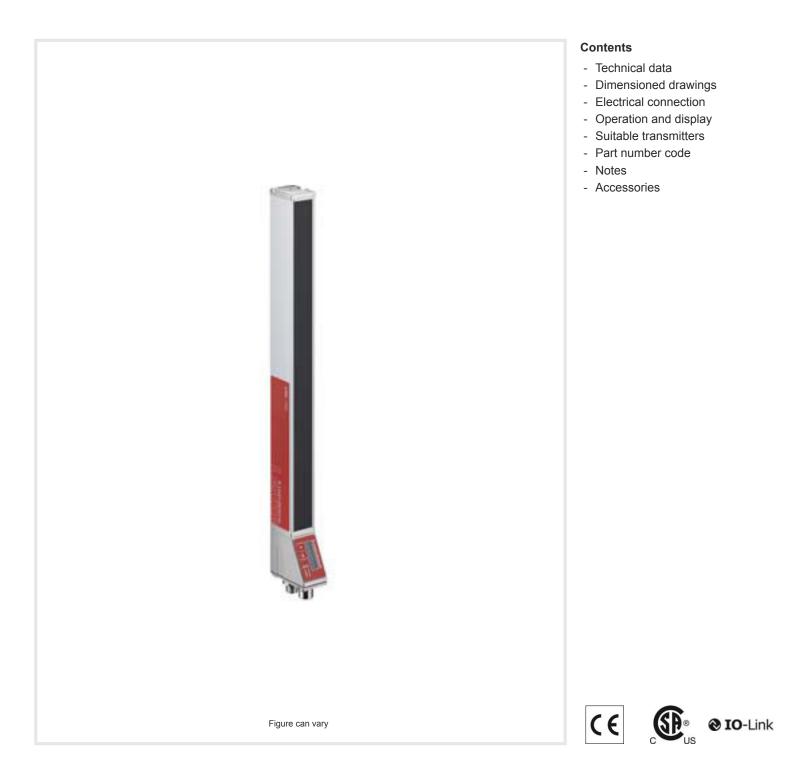
# Leuze

# **Technical data sheet** Light curtain receiver Part no.: 50118784 CML730i-R10-1760.A/L-M12



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# **Technical data**

# Leuze

Series	730
Operating principle	Throughbeam principle
Device type	Receiver
Contains	2x BT-NC sliding block
Application	Detection of transparent objects
	Object measurement
Special version	
Special version	Crossed-beam scanning
	Diagonal-beam scanning
	Parallel-beam scanning
Optical data	
Operating range	Guaranteed operating range
Operating range	0.3 9.5 m
Operating range, transparent media	0.3 3.5 m
Operating range limit	Typical operating range
Operating range limit	0.2 12 m
Measurement field length	1,760 mm
Number of beams	176 Piece(s)
Beam spacing	10 mm
Measurement data	
Minimum object diameter	20 mm
-	20 mm
Electrical data	
Protective circuit	Polarity reversal protection
	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	$0 \dots 350$ mA, The specified values refer
	to the entire package consisting of trans mitter and receiver.
Inputs/outputs selectable	
Output current, max.	100 mA
Input resistance	6,000 Ω
Number of inputs/outputs selectable	4 Piece(s)
Туре	Inputs/outputs selectable
Voltage type, outputs	DC
Switching voltage, outputs	Typ. U <sub>B</sub> / 0 V
Voltage type, inputs	DC
Switching voltage, inputs	high: ≥6V
	low: ≤4V
Input/output 1 Activation/disable delay	0 1 ms
2	011115
Timing	
	450 ms
•	
Readiness delay Cycle time	1.91 ms
Cycle time	1.91 ms
Cycle time Response time per beam	1.91 ms

ype         IO-Link           Function         Configuration via software           Service         Service           Connection         2 Piece(s)           Purg outlet         Axial           Connection 1         Configuration interface           Signal OUT         Voltage supply           Type of connection         Connector           Thread size         M12           Type of connection         Connector           Thread size         M12           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         5 -pin           Encoding         A-coded           Accoland         Metal           Metal         Metal           No. of pins         5 -pin	IO-Link	
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Housing color     Silver       Type of fastening     Groove mounting Via optional mounting device       Operation and display     LED OLED display       Type of display     LED OLED display       Number of LEDs     2 Piece(s)       Type of configuration     Software Teach-in       Operational controls     Membrane keyboard	Lens cover material	Plastic
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Operation and display       LED         Type of display       LED display         Number of LEDs       2 Piece(s)         Type of configuration       Software         Teach-in       Teach-in         Operational controls       Membrane keyboard         Environmental data       -30 60 °C	Type of fastening	Groove mounting
Type of display     LED       OLED display       Number of LEDs     2 Piece(s)       Type of configuration     Software       Teach-in       Operational controls     Membrane keyboard		Via optional mounting device
OLED display       Number of LEDs     2 Piece(s)       Type of configuration     Software       Teach-in       Operational controls     Membrane keyboard	Operation and display	
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Number of LEDs     2 Piece(s)       Type of configuration     Software       Teach-in     Teach-in       Operational controls     Membrane keyboard		
Type of configuration       Software         Teach-in         Operational controls       Membrane keyboard         Environmental data         Ambient temperature, operation       -30 60 °C	Number of LEDs	
Teach-in         Operational controls       Membrane keyboard         Environmental data         Ambient temperature, operation       -30 60 °C		
Operational controls     Membrane keyboard       Environmental data       Ambient temperature, operation     -30 60 °C		
Environmental data Ambient temperature, operation -30 60 °C	Operational controls	
Ambient temperature, operation -30 60 °C		
	Environmental data	
Ambient temperature, storage -40 70 °C		

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# **Technical data**

# Leuze

#### Certifications

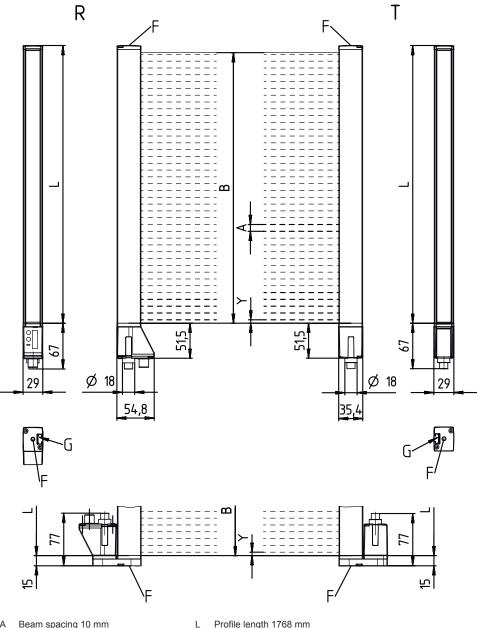
P 65
11
CSA US
EC 60947-5-2
2

#### 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
ETIM 6.0	EC002549
ETIM 7.0	EC002549
i@ss 9.0 i@ss 10.0 i@ss 11.0 iM 5.0 iM 6.0	27270910 27270910 27270910 EC002549 EC002549

## **Dimensioned drawings**

All dimensions in millimeters



- Beam spacing 10 mm А
- В Measurement field length 1760 mm
- F M6 thread G Fastening groove
- Profile length 1768 mm
- Transmitter
- R Receiver

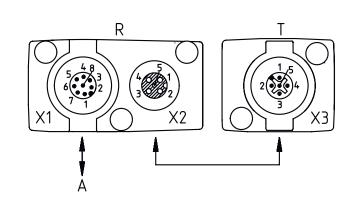
Т

5 mm Υ



## **Dimensioned drawings**





A PWR / SW IN / OUT

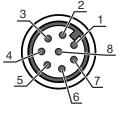
## **Electrical connection**

**Connection 1** 

Function	Configuration interface
	Signal IN
	Signal OUT
	Voltage supply
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

#### Pin Pin assignment

1	V+
2	IO1
3	GND
4	IO-Link
5	102
6	IO3
7	104
8	GND

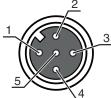


#### **Connection 2**

Connection to transmitter
Connector
M12
Female
Metal
5 -pin
A-coded

#### Pin Pin assignment

1	FE/SHIELD
2	V+
3	GND
4	RS 485 Tx+
5	RS 485 Tx-



### **Operation and display**

# Meaning

LED	Display	Meaning
1	Green, continuous light	Operational readiness
	Green, flashing	Teach / error
2	Yellow, continuous light	Light path free, with function reserve
	Yellow, flashing	No function reserve
	Off	Object detected

#### Suitable transmitters

 Part no.	Designation	Article	Description
50118622	CML730i-T10- 1760.A-M12	Light curtain transmitter	Operating range: 0.3 9.5 m Connection: Connector, M12, Axial, 5 -pin

#### Part number code

Part designation: CML7XXi-YZZ-AAAA.BCCCDDD-EEEFFF

Operating principle Measuring light curtain
Series           720i: 720i series           730i: 730i series
Device type T: transmitter R: receiver
Beam spacing           05: 5 mm           10: 10 mm           20: 20 mm           40: 40 mm
Measurement field length [mm], dependent on beam spacing
Equipment A: connector outlet, axial R: rear connector outlet
Interface L: IO-Link /CN: CANopen /PB: PROFIBUS /PN: PROFINET /CV: Analog current and voltage output /D3: RS 485 Modbus
Special equipment -PS: Power Setting
Electrical connection M12: M12 connector
-EX: Explosion protection
th 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:
A	<ul> <li>For UL applications, use is only permitted in Class 2 circuits in accordance with the NEC (National Electric Code).</li> <li>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)</li> </ul>

#### Accessories

#### Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50135128	KD S-M12-8A-P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

#### 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

#### 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

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#### Accessories

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# 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
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
с. С	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.