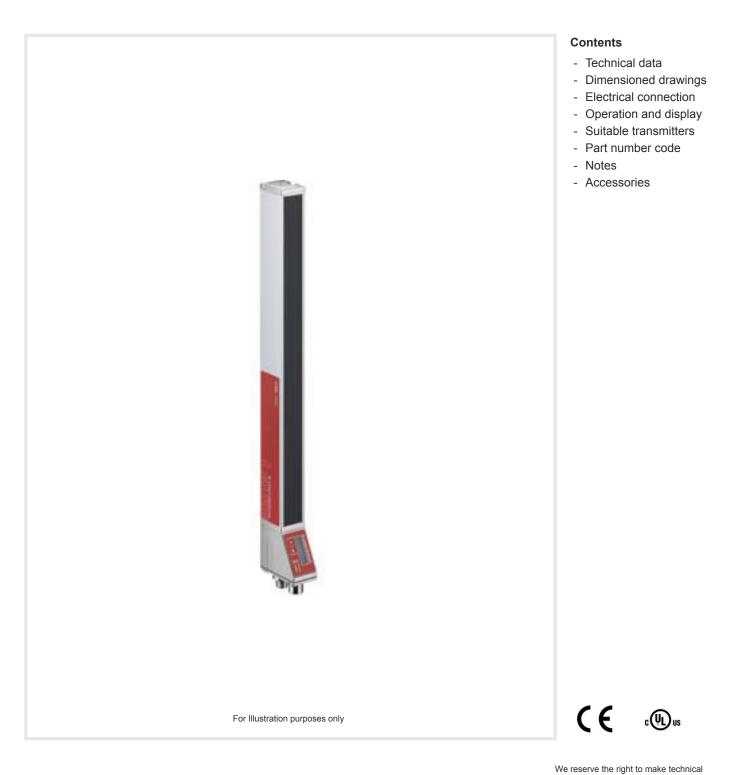


## **Technical data sheet Light curtain receiver** Part no.: 50117788 CML730i-R10-480.A/CN-M12



 Leuze electronic GmbH + Co. KG
 info@leuze.com • www.leuze.com
 changes

 The Sensor People
 In der Braike 1, D-73277 Owen/Germany
 Phone: +49 7021 573-0 • Fax: +49 7021 573-199
 eng • 2025-04-03

1/9

### **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	0.3 9.5 m
Operating range	Guaranteed operating range
Operating range, transparent media	0.3 3.5 m
Operating range limit	0.2 12 m
Operating range limit	Typical operating range
Measurement field length	480 mm
Number of beams	48 Piece(s)
Beam spacing	10 mm
Measurement data	
Minimum object diameter	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	0 165 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	2 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 Iow: ≤ 4 V
Input/output 1	
Activation/disable delay	1 ms
Time behavior	
Readiness delay	450 ms
Cycle time	1 ms
Response time per beam	10 µs
Interface	
	<u></u>
Туре	CANopen

FunctionProcessService interfaceTypeIO-LinkIO-LinkConfiguration via software ServiceFunctionConfiguration via software ServiceConnection2 Piece(s)Number of connections2 Piece(s)Plug outletAxialConnection 1Configuration interface Connection to transmitter Signal OUT Voltage supplyType of connectionConnector ConnectorThread sizeM12Type of connection MaterialMetalNo. of pins8 -pinEncodingA-codedConnection 2Function FunctionType of connection MaterialConnectorNo. of pins8 -pinEncodingA-codedConnection 2Function Primed sizeType of connection Thread sizeConnectorType of connection Tornead sizeConnectorType of connection Tornead sizeSignal IN BUS OUTType of connection Tornead sizeConnectorType of connection Tornead sizeConnectorType of connection Tornead sizeConnectorType of connection Tornead sizeSignal IN BUS OUTType of connection Tornead sizeConnectorType of connection Tornead sizeConnectorType of connection Tornead sizeConnectorType of connection Tornead sizeSignal IN BUS OUTDesignCubic CubicDimension (W x H x L)29 mm x 35.4 mm x 555 mm Housing colorNumber o	CANopen	
Type IO-Link	Function	Process
IO-Link       Configuration via software Service         Function       Configuration via software Service         Connection       2 Piece(s)         Plug outlet       Axial         Connection 1       Configuration interface Connection to transmitter Signal OUT Voltage supply         Type of connection       Connector to transmitter Signal OUT Voltage supply         Type of connection       Connector         Thread size       M12         Type       Male         Material       Metal         No. of pins       8 -pin         Encoding       A-coded         Connector 2       Function         Function       BUS IN BUS OUT         Type of connection 1       Connector         Thread size       M12         Type of connection       Connector         Thread size       M12         Type       Female         Material       Metal         No. of pins       5 -pin	Service interface	
Function       Configuration via software Service         Connection       2 Piece(s)         Number of connections       2 Piece(s)         Plug outlet       Axial         Connection 1       Configuration interface         Function       Configuration interface         Signal N       Signal OUT         Signal OUT       Voltage supply         Type of connection       Connector         Thread size       M12         Type       Male         Material       Metal         No. of pins       8 -pin         Encoding       A-coded         Connector 2       Function         Function       BUS IN         BUS OUT       Type of connection         Type of connection 1       Connector         Thread size       M12         Type       Female         Material       Metal         No. of pins       5 -pin         Encoding       A-coded         Methal       No. of pins         Encoding       A-coded         Material       Metal         No. of pins       5 -pin         Encoding       Alcoded         Design       Cubic	Туре	IO-Link
Service           Service           Connection           Number of connections         2 Piece(s)           Plug outlet         Axial           Connection 1         Configuration interface           Function         Connection to transmitter           Signal NU         Signal OUT           Voltage supply         Signal OUT           Voltage supply         Signal OUT           Voltage supply         Signal OUT           Type of connection         Connector           Thread size         M12           Type         Male           Material         Metal           No. of pins         8 -pin           Encoding         A-coded           Connection 2         Function           Function         BUS IN           BUS OUT         Type of connection           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         5 -pin           Encoding         A-coded           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 555 mm           Ho	IO-Link	
Connection Number of connections Plug outlet Axial  Connection 1  Function Connection to transmitter Signal IN Signal IN Signal OUT Voltage supply Type of connection Thread size M12 Type Male Material No. of pins Plug Connection 2  Function Connector Thread size M12 Type of connection Connector Thread size Connection 2  Function BUS IN BUS OUT Type of connection Connector Thread size M12 Type Function BUS IN BUS OUT Type of connection Connector Thread size M12 Type Function BUS IN BUS OUT Type of connection Connector Thread size M12 Type Function BUS IN BUS OUT Type of connection Connector Thread size M12 Type Function Connector Connector Thread size M12 Type Function Connector Connector Thread size M12 Type Function Connector	Function	Configuration via software
Number of connections         2 Piece(s)           Plug outlet         Axial           Connection 1         Configuration interface           Function         Connection to transmitter           Signal OUT         Voltage supply           Type of connection         Connector           Thread size         M12           Type         Male           Material         Metal           No. of pins         8 -pin           Encoding         A-coded           Connector 2         Function           Function 2         SUN           Function 3         BUS NN           BUS OUT         Type of 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           Wetchanical data         Metal           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 555 mm           Housi		Service
Plug outlet     Axial       Connection 1     Configuration interface       Function     Connection to transmitter       Signal N     Signal OUT       Voltage supply     Voltage supply       Type of connection     Connector       Thread size     M12       Type     Male       Material     Metal       No. of pins     8 -pin       Encoding     A-coded       Connector     Thread size       Type of connection     Connector       Thread size     M12       Type of connection     Connector       Function     BUS IN       BUS OUT     Type of connection       Connector     Connector       Thread size     M12       Type     Female       Material     Metal       No. of pins     5 -pin       Encoding     A-coded       Metchanical data     Metal       Metal     Metal       No. of pins     100 c       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     700 g       Housing color     Silver       Type of display	Connection	
Connection 1 Function Configuration interface Connection to transmitter Signal IN Signal OUT Voltage supply Type of connection Connector Thread size M12 Type Male Material No. of pins Encoding A-coded Connector Thread size M12 Type of connection Connector Thread size Connection 2 Function Encoding BUS IN BUS OUT Type of connection Connector Thread size M12 Type of connection Connector Thread size M12 Type of connection Connector Thread size Connection Connector Connection Connector Connection Connector Connection Connector Thread size Connection Connector Thread size Type of connection Connector Thread size M12 Type of connection Connector Thread size M12 Type of connection Connector Connector Thread size M12 Type of connection Connector Connector Connector Connector Connection Connector Connector Connector Connector Connection Connector Connector Connection Connector Connector Connection Connector Connector Connection Connector Con	Number of connections	2 Piece(s)
Function       Configuration interface         Connection to transmitter         Signal IN         Signal OUT         Voltage supply         Type of connection         Connector         Thread size         Material         Material         Material         Material         Motoring         A-coded         Connection 2         Function         Connector         Thread size         Miterial         Motoring         A-coded         Connection 2         Function         BUS IN         BUS OUT         Type of connection         Connector         Thread size         Material	Plug outlet	Axial
Function       Configuration interface         Connection to transmitter         Signal IN         Signal OUT         Voltage supply         Type of connection         Connector         Thread size         Material         Material         Material         Material         Motoring         A-coded         Connection 2         Function         BUS IN         BUS OUT         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         Metal         Material         Metal         No. of pins         5 -pin         Encoding         Aluminum         Lens cover material         Metal         Metal         Metal		
Connection to transmitter         Signal IN         Signal OUT         Voltage supply         Type of connection         Connector         Thread size         Material         Metal         No. of pins         8 -pin         Encoding         A-coded         Connection 2         Function         BUS IN         BUS OUT         Type of connection         Connector 2         Function         BUS OUT         Type of connection         Connector         Thread size         M12         Type of connection         Connector         Thread size         Material         No. of pins         Solution         Dise of pins         Solution		
Signal IN         Signal OUT         Voltage supply         Type of connection       Connector         Thread size       M12         Type       Male         Material       Metal         No. of pins       8 -pin         Encoding       A-coded         Connection 2       Encotion 2         Function       BUS IN         BUS OUT       Type of connection         Type of connection       Connector         No. of pins       5 -pin         Encoding       A-coded         Metal       Metal         Nou of pins       1000 <t< td=""><td>Function</td><td>-</td></t<>	Function	-
Signal OUT           Voltage supply           Type of connection         Connector           Thread size         M12           Type         Male           Material         Metal           No. of pins         8 -pin           Encoding         A-coded           Connection 2         Function           Function         BUS IN           BUS OUT         Type of connection           Connector         Connector           Thread size         M12           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         5 -pin           Encoding         A-coded           Metchanical data         Metal           No. of pins         5 -pin           Encoding         A-coded           Metal         Metal           No. of pins         5 -pin           Encoding         Aluminum           Housing material         Metal           Metal         Metal           Net weight         700 g           Housing color         Silver <t< td=""><td></td><td></td></t<>		
Voltage supplyType of connectionConnectorThread sizeM12TypeMaleMaterialMetalNo. of pins8 -pinEncodingA-codedConnection 2Encotion 2FunctionBUS INBUS OUTType of connectionType of connectionConnectorThread sizeM12Type of connectionConnectorThread sizeM12Type of connectionConnectorThread sizeM12Type femaleMetalMaterialMetalNo. of pins5 -pinEncodingA-codedMethanMetalNo. of pins5 -pinEncodingA-codedMethanMetalNot of pins5 -pinEncodingA-codedMethanMetalNot of pins5 -pinEncodingA-codedMethanMetalNot of pins5 -pinEncodingA-codedMethanMetalNot of pins5 -pinEncodingCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing colorSilverType of fasteningVia optional mounting deviceOperation and displayVia optional mounting deviceOperational controlsMembrane keyboardEnvironmental dataMembrane keyboard		
Type of connectionConnectorThread sizeM12TypeMaleMaterialMetalNo. of pins8 -pinEncodingA-codedConnection 2EncodingFunctionBUS IN BUS OUTType of connectionConnectorThread sizeM12TypeFemaleMaterialMetalNo. of pins5 -pinEncodingA-codedMetalMetalNo. of pins5 -pinEncodingA-codedMetalaiMetalNo. of pins5 -pinEncodingA-codedMetalaiMetalNo. of pins5 -pinEncodingCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNu weight700 gHousing colorSilverType of fastening OLED displayCuED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-inOperational controlsMembrane keyboard		-
Thread sizeM12TypeMaleMaterialMetalNo. of pins8 -pinEncodingA-codedConnection 2EncodingFunctionBUS IN BUS OUTType of connectionConnectorThread sizeM12Type of connectionConnectorThread sizeM12Type of connectionConnectorThread sizeM12MaterialMetalNo. of pins5 -pinEncodingA-codedMechanical dataMetalDesignCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNut weight700 gHousing colorSilverType of fastening Type of fasteningCrow mounting Via optional mounting deviceOperation and displayLED OLED displayNumber of LEDs2 Picce(s)Type of configurationSoftware Teach-inOperational controlsMembrane keyboard		
TypeMaleMaterialMetalNo. of pins8 -pinEncodingA-codedConnection 2BUS IN BUS OUTFunctionBUS IN BUS OUTType of connectionConnectorThread sizeM12TypeFemaleMaterialMetalNo. of pins5 -pinEncodingCubicDesignCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNet weight700 gHousing colorSilverType of displayLEDOperation and displayLEDUkumber of LEDs2 Piece(s)Type of configurationSoftwareType of configurationSoftwareType of configurationMembrane keyboard	*.	
MaterialMetalNo. of pins8 -pinEncodingA-codedConnection 2FunctionBUS INFunctionConnectorType of connectionConnectorThread sizeM12TypeFemaleMaterialMetalNo. of pins5 -pinEncodingA-codedWechanical dataCubicDesignCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNet weight700 gHousing colorSilverType of displayLEDOperation and display2 Piece(s)Type of configurationSoftwareType of configurationSoftwareType of configurationSoftwareTeach-inTeach-inOperational controlsMembrane keyboard		
No. of pins8 -pinEncodingA-codedEncodingBUS IN BUS OUTFunctionBUS IN BUS OUTType of connectionConnectorThread sizeM12TypeFemaleMaterialMetalNo. of pins5 -pinEncodingCubicMechanical dataMetalMetalMetalMechanical dataMetalDesignCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetal<	21	
EncodingA-codedConnection 2BUS IN BUS OUTFunctionBUS IN BUS OUTType of connectionConnectorThread sizeM12TypeFemaleMaterialMetalNo. of pins5 -pinEncodingA-codedMechanical dataDiscomentationDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetalMetalMetalMetalNot or pinsCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetalMetalMetalMetalMetalSilverType of fasteningGroove mounting Via optional mounting deviceOperation and displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-inOperational controlsMembrane keyboard		Metal
Connection 2FunctionBUS IN BUS OUTType of connectionConnectorThread sizeM12TypeFemaleMaterialMetalNo. of pins5 -pinEncodingA-codedMechanical dataUDesignCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNet weight700 gHousing colorSilverType of fasteningGroove mounting Via optional mounting deviceOperation and displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-inOperational controlsMembrane keyboard		•
FunctionBUS IN BUS OUTType of connectionConnectorThread sizeM12TypeFemaleMaterialMetalNo. of pins5 -pinEncodingA-codedMethanical dataWetalDesignCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNet weight700 gHousing colorSilverType of fasteningGroove mounting deviceOperation and displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-inOperational controlsMembrane keyboard	Encoding	A-coded
BUS OUTType of connectionConnectorThread sizeM12TypeFemaleMaterialMetalNo. of pins5 -pinEncodingA-codedMethanical dataMetalDesignCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNet weight700 gHousing colorSilverType of fasteningLEDOperation and displayLEDNumber of LEDs2 Piece(s)Type of configurationSoftwareType of configurationSoftwareCoperational controlsMembrane keyboard	Connection 2	
Type of connectionConnectorThread sizeM12TypeFemaleMaterialMetalNo. of pins5 -pinEncodingA-codedMechanical dataMetalDesignCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNet weight700 gHousing colorSilverType of fasteningGroove mounting Via optional mounting deviceOperation and displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-inOperational controlsMembrane keyboard	Function	BUS IN
Thread sizeM12TypeFemaleMaterialMetalNo. of pins5 -pinEncodingA-codedMechanical dataCubicDesignCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNet weight700 gHousing colorSilverType of fasteningGroove mounting Via optional mounting deviceOperation and displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-inOperational controlsMembrane keyboard		BUS OUT
TypeFemaleMaterialMetalNo. of pins5 -pinEncodingA-codedMechanical dataCubicDesignCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNet weight700 gHousing colorSilverType of fasteningGroove mountingOperation and displayLEDNumber of LEDs2 Piece(s)Type of configurationSoftwareType of configurationSoftwareType of configurationMembrane keyboard	Type of connection	Connector
Material       Metal         No. of pins       5 -pin         Encoding       A-coded         Mechanical data       Metal         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       700 g         Housing color       Silver         Type of fastening       Groove mounting         Via optional mounting device       OLED display         Type of display       LED         Number of LEDs       2 Piece(s)         Type of configuration       Software         Teach-in       Membrane keyboard	Thread size	M12
No. of pins5 -pinEncodingA-codedMechanical dataCubicDesignCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNet weight700 gHousing colorSilverType of fasteningCroove mounting Via optional mounting deviceOperation and displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-inOperational controlsMembrane keyboard	Туре	Female
EncodingA-codedMechanical dataCubicDesignCubicDimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNet weight700 gHousing colorSilverType of fasteningCroove mounting Via optional mounting deviceOperation and displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-inOperational controlsMembrane keyboard	Material	Metal
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       700 g         Housing color       Silver         Type of fastening       Groove mounting         Via optional mounting device         Operation and display       LED         Number of LEDs       2 Piece(s)         Type of configuration       Software         Teach-in       Membrane keyboard	No. of pins	5 -pin
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       700 g         Housing color       Silver         Type of fastening       Groove mounting         Via optional mounting device         Operation and display       LED         Number of LEDs       2 Piece(s)         Type of configuration       Software         Operational controls       Membrane keyboard	Encoding	A-coded
Dimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNet weight700 gHousing colorSilverType of fasteningGroove mounting Via optional mounting deviceOperation and displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-inOperational controlsMembrane keyboard	Mechanical data	
Dimension (W x H x L)29 mm x 35.4 mm x 555 mmHousing materialMetalMetal housingAluminumLens cover materialPlasticNet weight700 gHousing colorSilverType of fasteningGroove mounting Via optional mounting deviceOperation and displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-inOperational controlsMembrane keyboard	Design	Cubic
Metal housing     Aluminum       Lens cover material     Plastic       Net weight     700 g       Housing color     Silver       Type of fastening     Groove mounting       Operation and display     LED       OLED display     2 Piece(s)       Type of configuration     Software       Operational controls     Membrane keyboard		29 mm x 35.4 mm x 555 mm
Lens cover material     Plastic       Net weight     700 g       Housing color     Silver       Type of fastening     Groove mounting Via optional mounting device       Operation and display     LED OLED display       Number of LEDs     2 Piece(s)       Type of configuration     Software Teach-in       Operational controls     Membrane keyboard	Housing material	Metal
Net weight     700 g       Housing color     Silver       Type of fastening     Groove mounting Via optional mounting device       Operation and display     LED OLED display       Number of LEDs     2 Piece(s)       Type of configuration     Software Teach-in       Operational controls     Membrane keyboard	Metal housing	Aluminum
Housing color     Silver       Type of fastening     Groove mounting Via optional mounting device       Operation and display     LED OLED display       Number of LEDs     2 Piece(s)       Type of configuration     Software Teach-in       Operational controls     Membrane keyboard	Lens cover material	Plastic
Type of fastening       Groove mounting         Via optional mounting device         Operation and display         Type of display         LED         OLED display         Number of LEDs         2 Piece(s)         Type of configuration         Software         Teach-in         Operational controls         Membrane keyboard	Net weight	700 g
Type of fastening       Groove mounting         Via optional mounting device         Operation and display         Type of display       LED         OLED display         Number of LEDs       2 Piece(s)         Type of configuration       Software         Teach-in         Operational controls       Membrane keyboard	Housing color	Silver
Via optional mounting device Operation and display Type of display LED OLED display Number of LEDs 2 Piece(s) Type of configuration Software Teach-in Operational controls Environmental data	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		_
OLED display       Number of LEDs     2 Piece(s)       Type of configuration     Software       Teach-in       Operational controls     Membrane keyboard	Operation and display	
OLED display       Number of LEDs     2 Piece(s)       Type of configuration     Software       Teach-in       Operational controls     Membrane keyboard	Type of display	LED
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	Number of LEDs	
Teach-in       Operational controls     Membrane keyboard       Environmental data		
Operational controls Membrane keyboard Environmental data		
	Operational controls	
Ambient temperature, operation -30 60 °C	Environmental data	
	Ambient temperature, operation	-30 60 °C
Ambient temperature, storage -40 70 °C		
Annoint tomperature, storage -+0 70 0	Amorent temperature, storage	-070 0

### **Technical data**

#### Certifications

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

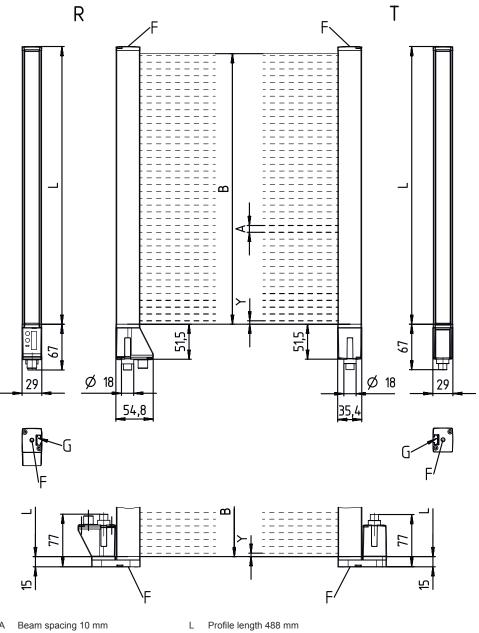
#### Classification

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 10 mm А

Fastening groove

- В Measurement field length 480 mm
- F M6 thread

G

R Receiver

Т

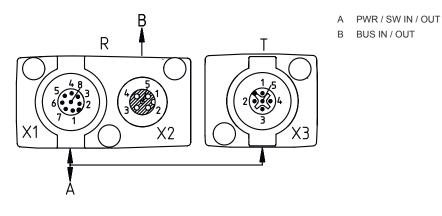
Υ 5 mm

Transmitter

## Leuze

#### **Dimensioned drawings**





## **Electrical connection**

**Connection 1** 

Function	Configuration interface
	Connection to transmitter
	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	I/O 1		
3	GND		
4	IO-Link		
5	I/O 2		
6	RS 485 Tx-		
7	RS 485 Tx+		
8	FE/SHIELD		



#### **Connection 2**

Function	BUS IN
	BUS OUT
Type of connection	Connector
Thread size	M12
Туре	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

### **Electrical connection**

Pin	Pin assignment	$-\frac{2}{2}$
1	FE/SHIELD	1
2	n.c.	
3	CAN GND	
4	CAN H	
5	CAN L	3

### **Operation and display**

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
50117787	CML730i-T10-480.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

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

Leuze

#### Part number code



DDD	Special equipment -PS: Power Setting
EEE	Electrical connection M12: M12 connector
FFF	-EX: Explosion protection
	Note
A	∜ A list with all available device types can be found on the Leuze website at www.leuze.com.

#### Notes

Observe intended use!
<ul> <li>This product is not a safety sensor and is not intended as personnel protection.</li> <li>The product may only be put into operation by competent persons.</li> <li>Only use the product in accordance with its intended use.</li> </ul>



#### 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 - Connection cables

 Part no.	Designation	Article	Description
50132079	KD U-M12-5A-V1- 050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC

#### 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

# Leuze

## Connection technology - Y distribution cables

	Part no.	Designation	Article	Description
	50118183	K-Y1 M12A-5m- M12A-S-PUR	Interconnection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 5 -pin Connection 3: Connector, M12, Axial, Female, A-coded, 8 -pin Shielded: Yes Cable length fork 1: 5,000 mm Cable length fork 2: 150 mm Sheathing material: PUR
	50118185	K-YCN M12A-M12A- S-PUR	Interconnection cable	Suitable for interface: CANopen Connection 1: Connector, M12, Axial, Male, A-coded, 5 -pin Connection 2: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 3: Connector, M12, Axial, Male, A-coded, 5 -pin Shielded: Yes Cable length fork 1: 250 mm Cable length fork 2: 350 mm Sheathing material: PUR

## Connection technology - Terminating resistors

 Part no.	Designation	Article	Description
50040099	TS 01-5-SA	Terminator plug	Suitable for: DeviceNet, CANopen Function: Bus termination Connection 1: Connector, M12, Axial, Male, A-coded, 5 -pin

#### 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
R. Ca	429393	BT-2HF	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
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.

# Leuze

#### Accessories

 Part no.	Designation	Article	Description
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
6	t A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.