

## **Technical data sheet Light curtain receiver** Part no.: 50119983 CML720i-R40-2210.R/CN-M12



The Sensor People In der Braike 1, 73277 Owen

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### **Technical data**

# Leuze

Series	720
Operating principle	Throughbeam principle
Device type	Receiver
Contains	Accessories for the use of the BT-2R1
Application	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 7 m
Operating range limit	Typical operating range
Operating range limit	0.2 9 m
Measurement field length	2,210 mm
Number of beams	55 Piece(s)
Beam spacing	40 mm
Measurement data	
Minimum object diameter	50 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	0 435 mA, The specified values refer to the entire package consisting of trans mitter and receiver.
Inputs/outputs selectable	100 1
Output current, max.	100 mA
Input resistance	6,000 Ω
Number of inputs/outputs selectable	
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	1 ms
Timing Readiness delay	450 ms
Cycle time	2.05 ms
	30 µs
Response time per beam	
Response time per beam Interface Type	CANopen
Interface Type	CANopen
	CANopen Process

TypeIO-LinkFunctionConfiguration via software ServiceConnectionServiceConnectionPlug outletPlug outletConfiguration interface Connection 1Function 1Configuration interface Connection 1Function 1Configuration interface Connection 1Function 2ConnectorType of connectionConnectorType of connectionConnectorType of connectionConnectorType of connectionConnectorType of connectionConnectorType of connectionServiceType of connectionConnectorType of connectionConnectorConnectionConnectorType of connectionConnectorConnectionConnectorConnectionConnectorType of connectionConnectorConnectionConnectorConnection <t< th=""><th>Service interface</th><th></th></t<>	Service interface		
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Net weight     2,350 g       Housing color     Silver       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       Toperational controls     Membrane keyboard	-	Aluminum	
Housing color     Silver       Type of fastening     Groove mounting Via optional mounting device       Operation and display     LED       Type of display     LED       Number of LEDs     2 Piece(s)       Type of configuration     Software       Operational controls     Membrane keyboard	Lens cover material	Plastic	
Type of fastening     Groove mounting Via optional mounting device       Operation and display     LED       Type of display     LED display       Number of LEDs     2 Piece(s)       Type of configuration     Software Teach-in       Operational controls     Membrane keyboard	Net weight	2,350 g	
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	
Operation and display       Type of display       LED       OLED display       Number of LEDs       2 Piece(s)       Type of configuration       Software       Teach-in       Operational controls	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	
Number of LEDs     OLED display       Number of LEDs     2 Piece(s)       Type of configuration     Software       Teach-in     Teach-in       Operational controls     Membrane keyboard	Operation and display		
Number of LEDs     2 Piece(s)       Type of configuration     Software       Teach-in     Teach-in       Operational controls     Membrane keyboard	Type of display	LED	
Type of configuration     Software       Teach-in       Operational controls     Membrane keyboard		OLED display	
Teach-in Operational controls Membrane keyboard	Number of LEDs	2 Piece(s)	
Operational controls Membrane keyboard	Type of configuration	Software	
Environmental data	Operational controls	Membrane keyboard	
	Environmental data		
Ambient temperature, operation -30 60 °C	Ambient temperature, operation	-30 60 °C	
Ambient temperature, storage -40 70 °C		-40 70 °C	

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### **Technical data**

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#### Certifications

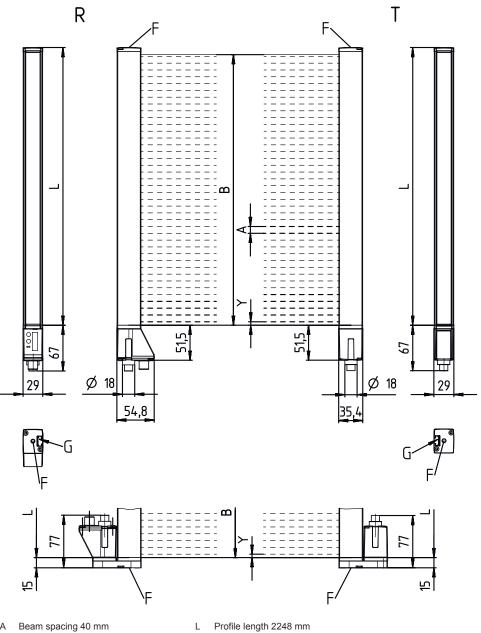
Degree of protection	IP 65
Protection class	III
Certifications	c CSA US
Standards applied	IEC 60947-5-2

#### 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
Cl@ss 10.0 Cl@ss 11.0 FIM 5.0 FIM 6.0	27270910 27270910 EC002549 EC002549

#### **Dimensioned drawings**

All dimensions in millimeters



Beam spacing 40 mm А

Fastening groove

- В Measurement field length 2210 mm
- F M6 thread

G

R Receiver

Т

5 mm Υ

Transmitter

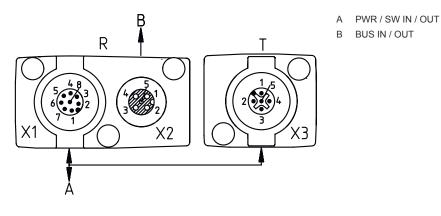
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We reserve the right to make technical changes eng • 2020-12-17

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#### **Dimensioned drawings**





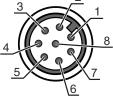
## **Electrical connection**

**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	
	FE/SHIELD	
	n.c.	
	CAN GND	
	CAN H	
5	CAN L	

### **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
50119529	CML720i-T40- 2210.R-M12	Light curtain transmitter	Operating range: 0.3 6 m Connection: Connector, M12, Rear side, 5 -pin

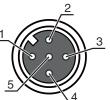
#### Part number code

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: connector outlet, axial 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

#### 6/9





#### 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 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: 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

#### 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 Connection 1: Connector, M12, Axial, Male, A-coded, 5 -pin Function: Bus termination

#### 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
ęę.	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.

#### Accessories

## Leuze

 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. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.

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

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