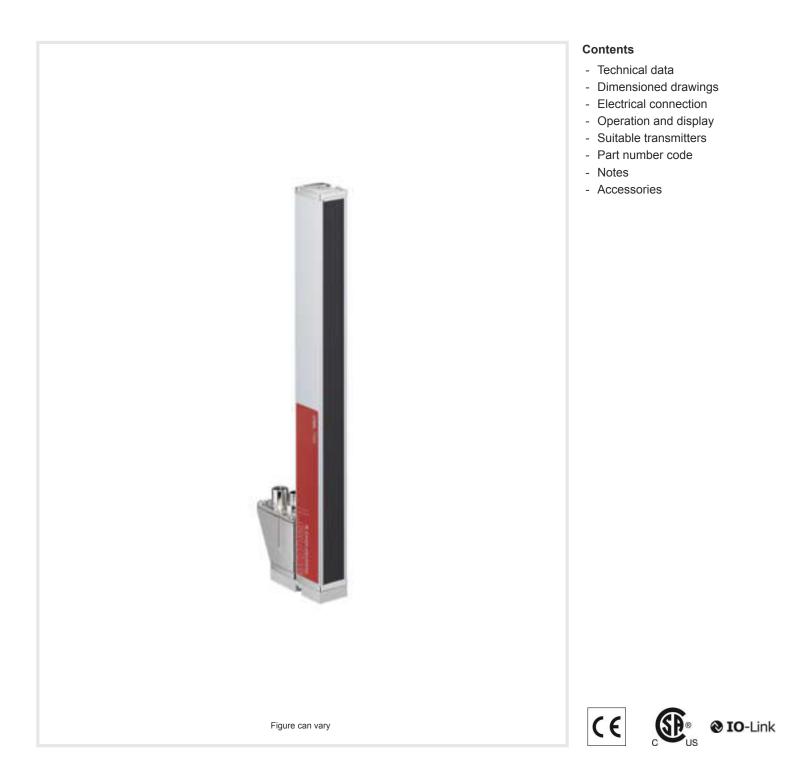
Leuze

Technical data sheet Light curtain receiver Part no.: 50120059 CML720i-R05-1680.R/L-M12



The Sensor People In der Braike 1, 73277 Owen

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Technical data

Leuze

_ ala de

| Basic data | |
|--|---|
| 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 | 0.1 3.5 m |
| Operating range limit | Typical operating range |
| Operating range limit | 0.1 4.5 m |
| Measurement field length | 1,680 mm |
| Number of beams | 336 Piece(s) |
| Beam spacing | 5 mm |
| Measurement data | |
| Minimum object diameter | 10 mm |
| Electrical data | |
| Protective circuit | Polarity reversal protection |
| | Short circuit protected |
| | Transient protection |
| | |
| Performance data | |
| Supply voltage U _B | 18 30 V, DC |
| Residual ripple | 0 15 %, From U _B |
| Open-circuit current | 0 350 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 | Тур. U _в / 0 V |
| Switching voltage, outputs Voltage type, inputs | Typ. U _B / 0 V DC |
| | ·· D |
| Voltage type, inputs | DC |
| Voltage type, inputs Switching voltage, inputs | DC high: ≥6V |
| Voltage type, inputs Switching voltage, inputs Input/output 1 | DC high: ≥6V low: ≤4V |
| Voltage type, inputs Switching voltage, inputs | DC high: ≥6V |
| Voltage type, inputs Switching voltage, inputs Input/output 1 Activation/disable delay | DC high: ≥6V low: ≤4V |
| Voltage type, inputs Switching voltage, inputs Input/output 1 Activation/disable delay | DC high: ≥6V low: ≤4V |
| Voltage type, inputs Switching voltage, inputs Input/output 1 | DC high: ≥6V low: ≤4V 0 1 ms |
| Voltage type, inputs Switching voltage, inputs Input/output 1 Activation/disable delay Timing Readiness delay | DC high: ≥6V low: ≤4V 0 1 ms |
| Voltage type, inputs Switching voltage, inputs Input/output 1 Activation/disable delay Timing Readiness delay Cycle time | DC high: ≥6V low: ≤4V 0 1 ms 400 ms 10.48 ms |

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| ype of display LED | |
| OLED display | |
| lumber of LEDs 2 Piece(s) | |
| | |
| ype of configuration Software Teach-in Teach-in | |
| Environmental data | |
| Ambient temperature, operation -30 60 °C | |
| Ambient temperature, operation -30 60 C Ambient temperature, storage -40 70 °C | |

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 We reserve the rig

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We reserve the right to make technical changes

Technical data

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Certifications

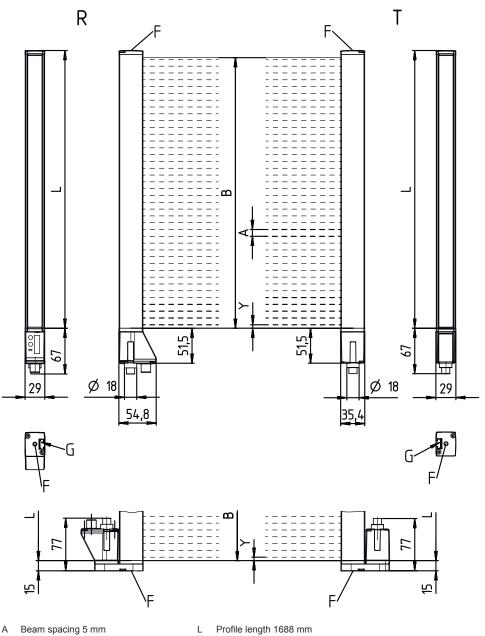
| IP 65 |
|---------------|
| III |
| c CSA US |
| IEC 60947-5-2 |
| |

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

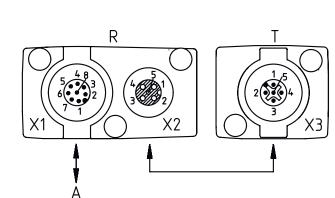


- Beam spacing 5 mm А
- В Measurement field length 1680 mm
- F M6 thread G Fastening groove
- Transmitter Т
- R Receiver
- 2.5 mm Υ



Dimensioned drawings





A PWR / SW IN / OUT

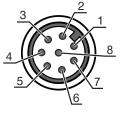
Electrical connection

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 | IO2 |
| 6 | 103 |
| 7 | IO4 |
| 8 | GND |
| | |

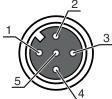


Connection 2

| Function | Connection to transmitter |
|--------------------|---------------------------|
| Type of connection | Connector |
| Thread size | M12 |
| Туре | Female |
| 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 | 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 |
|--------------|----------------------------|------------------------------|---|
| 50119469 | CML720i-T05- 1680.R-M12 | Light curtain transmitter | Operating range: 0.1 3.5 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 |
| ZZ | 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 |
| DDD | Special equipment -PS: Power Setting |
| EEE | Electrical connection M12: M12 connector |
| FFF | -EX: Explosion protection |
| Note | |
| A list wi | th all available device types can be found on the Leuze website at www.leuze.com. |

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Notes

Observe intended use!

✤ This product is not a safety sensor and is not intended as personnel protection.

 ${\ensuremath{\,\textcircled{\tiny \ensuremath{\,\Downarrow}}}}$ 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 | 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 |
|--------------|--------------------|------------------|--|
| 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 |
|---|----------|----------------|---------------------|---|
| 1 + 1 + + + + + + + + + + + + + + + + + | 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



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 |

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 |
|--------------|-------------|------------------|---|
| 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.