Technical data sheet Light curtain transmitter Part no.: 50119378 CML720i-T05-880.A-M12





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We reserve the right to make technical changes eng • 2020-12-19

Technical data

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Basic data

| Operating principle Throughbeam principle Device type Transmitter Contains 2x BT-NC sliding block Application Object measurement Special version Crossed-beam scanning Diagonal-beam scanning Diagonal-beam scanning Parallel-beam scanning Parallel-beam scanning Operating range Guaranteed operating range Operating range 0.1 3.5 m Operating range 0.1 4.5 m Measurement field length 880 mm Number of beams 176 Piece(s) Beam spacing 5 mm LED light wavelength 940 nm Measurement data Minimum object diameter Protective circuit Polarity reversal protection Short circuit protected Transient protection Short circuit protection Short circuit protected Transient protection Short circuit and receiver. Performance data Supply voltage U _B 18 30 V, DC Residual ripple 0 15 %, From U _B Open-circuit current Open-circuit current 0 215 mA, The specif | Basic data | | | | |
|--|-------------------------------|---|--|--|--|
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| Operating range 0.13.5 m Operating range limit Typical operating range Operating range limit 0.14.5 m Measurement field length 880 mm Number of beams 176 Piece(s) Beam spacing 5 mm Light source LED, Infrared LED light wavelength 940 nm Measurement data 10 mm Electrical data Protective circuit Protective circuit Polarity reversal protection Short circuit protected Transient protection Supply voltage U _B 18 30 V, DC Residual ripple 0 15 %, From U _B Open-circuit current 0 215 mA, The specified values refer to the entire package consisting of transmitter and receiver. Timing Readiness delay 450 ms Cycle time 5.68 ms Scycle time Shore circuit 1 Piece(s) | Optical data | | | | |
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| Measurement data Minimum object diameter 10 mm Electrical data Polarity reversal protection Short circuit protected Short circuit protected Transient protection Transient protection Performance data Supply voltage UB Supply voltage UB 18 30 V, DC Residual ripple 0 15 %, From UB Open-circuit current 0 215 mA, The specified values referto the entire package consisting of transmitter and receiver. Timing Readiness delay Keadiness delay 450 ms Cycle time 5.68 ms Connection 1 Piece(s) | Light source | LED, Infrared | | | |
| Minimum object diameter 10 mm Electrical data Polarity reversal protection Protective circuit Polarity reversal protection Short circuit protected Transient protection Performance data Supply voltage U _B Supply voltage U _B 18 30 V, DC Residual ripple 0 15 %, From U _B Open-circuit current 0 215 mA, The specified values refer to the entire package consisting of transmitter and receiver. Timing Readiness delay A50 ms 5.68 ms Connection 1 Piece(s) | LED light wavelength | 940 nm | | | |
| Electrical data Protective circuit Polarity reversal protection Short circuit protected Transient protection Performance data Supply voltage UB 18 30 V, DC Residual ripple 0 15 %, From UB Open-circuit current 0 215 mA, The specified values referto the entire package consisting of transmitter and receiver. Timing Readiness delay 450 ms Cycle time 5.68 ms Connection 1 Piece(s) | Measurement data | | | | |
| Protective circuit Polarity reversal protection Short circuit protected Transient protection Performance data Image: Supply voltage UB Supply voltage UB 18 30 V, DC Residual ripple 0 15 %, From UB Open-circuit current 0 215 mA, The specified values refert to the entire package consisting of transmitter and receiver. Timing Readiness delay Qcycle time 5.68 ms Connection 1 Piece(s) | Minimum object diameter | 10 mm | | | |
| 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 0 215 mA, The specified values refer to the entire package consisting of transmitter and receiver. Timing Readiness delay 450 ms Cycle time 5.68 ms Connection 1 Piece(s) | Electrical data | | | | |
| Performance data Supply voltage U _B 18 30 V, DC Residual ripple 0 15 %, From U _B Open-circuit current 0 215 mA, The specified values refer to the entire package consisting of transmitter and receiver. Timing Readiness delay 450 ms Cycle time 5.68 ms Connection 1 Piece(s) | Protective circuit | Polarity reversal protection | | | |
| Performance data Supply voltage U _B 18 30 V, DC Residual ripple 0 15 %, From U _B Open-circuit current 0 215 mA, The specified values refer to the entire package consisting of transmitter and receiver. Timing Readiness delay 450 ms Cycle time 5.68 ms Connection 1 Piece(s) | | Short circuit protected | | | |
| Supply voltage U _B 18 30 V, DC Residual ripple 0 15 %, From U _B Open-circuit current 0 215 mA, The specified values refer to the entire package consisting of transmitter and receiver. Timing Readiness delay 450 ms Cycle time 5.68 ms Connection 1 Piece(s) | | Transient protection | | | |
| Supply voltage U _B 18 30 V, DC Residual ripple 0 15 %, From U _B Open-circuit current 0 215 mA, The specified values refer to the entire package consisting of transmitter and receiver. Timing Readiness delay 450 ms Cycle time 5.68 ms Connection 1 Piece(s) | | | | | |
| Residual ripple 0 15 %, From U _B Open-circuit current 0 215 mA, The specified values refer to the entire package consisting of transmitter and receiver. Timing Readiness delay Readiness delay 450 ms Cycle time 5.68 ms Connection 1 Piece(s) | Performance data | | | | |
| Open-circuit current 0 215 mA, The specified values refer to the entire package consisting of transmitter and receiver. Timing Readiness delay Readiness delay 450 ms Cycle time 5.68 ms Connection 1 Piece(s) | Supply voltage U _B | 18 30 V, DC | | | |
| to the entire package consisting of transmitter and receiver. Timing Readiness delay 450 ms Cycle time 5.68 ms Connection Number of connections 1 Piece(s) | Residual ripple | 0 15 %, From U _B | | | |
| Readiness delay 450 ms Cycle time 5.68 ms Connection Number of connections 1 Piece(s) | Open-circuit current | to the entire package consisting of trans | | | |
| Cycle time 5.68 ms Connection Number of connections 1 Piece(s) | Timing | | | | |
| Connection Number of connections 1 Piece(s) | Readiness delay | 450 ms | | | |
| Number of connections 1 Piece(s) | Cycle time | 5.68 ms | | | |
| | Connection | | | | |
| Plug outlet Axial | Number of connections | | | | |
| | | 1 Piece(s) | | | |

| | Classification | | | |
|---|-----------------------|--|--|--|
| | Customs tariff number | | | |
| tion | eCl@ss 5.1.4 | | | |
| | eCl@ss 8.0 | | | |
| | eCl@ss 9.0 | | | |
| | eCl@ss 10.0 | | | |
| | eCl@ss 11.0 | | | |
| | ETIM 5.0 | | | |
| | ETIM 6.0 | | | |
| ified values refer onsisting of trans- | ETIM 7.0 | | | |
| | | | | |
| | | | | |

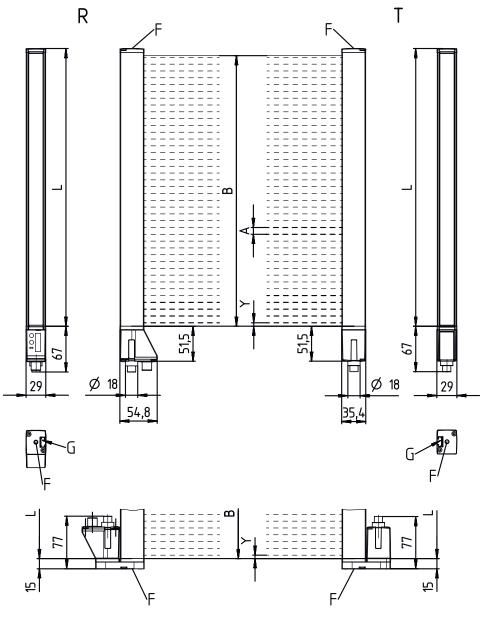
| Number of connections | 1 Piece(s) |
|-----------------------|------------------------|
| Plug outlet | Axial |
| | |
| Connection 1 | |
| Function | Connection to receiver |
| | Sync-input |
| | Voltage supply |
| Type of connection | Connector |
| Thread size | M12 |
| Туре | Male |
| Material | Metal |
| No. of pins | 5 -pin |
| Encoding | A-coded |

Mechanical data

| Design | Cubic |
|--|---|
| Dimension (W x H x L) | 29 mm x 35.4 mm x 955 mm |
| Housing material | Metal |
| Metal housing | Aluminum |
| Lens cover material | Plastic |
| Net weight | 1,050 g |
| Housing color | Silver |
| Type of fastening | Groove mounting |
| | Via optional mounting device |
| Operation and display | |
| Type of display | LED |
| Number of LEDs | 1 Piece(s) |
| Environmental data | |
| Ambient temperature, operation | -30 60 °C |
| Ambient temperature, storage | -40 70 °C |
| Certifications | IP 65 |
| Degree of protection Protection class | IP 65 |
| Certifications | c CSA US |
| | |
| | |
| Standards applied | IEC 60947-5-2 |
| | |
| Standards applied | |
| Standards applied | IEC 60947-5-2 |
| Standards applied Classification Customs tariff number | IEC 60947-5-2 90314990 |
| Standards applied Classification Customs tariff number eCl@ss 5.1.4 | IEC 60947-5-2 90314990 27270910 |
| Standards applied Classification Customs tariff number eCl@ss 5.1.4 eCl@ss 8.0 eCl@ss 9.0 eCl@ss 10.0 | IEC 60947-5-2 90314990 27270910 27270910 |
| Standards applied Classification Customs tariff number eCl@ss 5.1.4 eCl@ss 8.0 eCl@ss 9.0 | IEC 60947-5-2 90314990 27270910 27270910 27270910 |
| Standards applied Classification Customs tariff number eCl@ss 5.1.4 eCl@ss 8.0 eCl@ss 9.0 eCl@ss 10.0 | IEC 60947-5-2 90314990 27270910 27270910 27270910 27270910 27270910 |
| Standards applied Classification Customs tariff number eCl@ss 5.1.4 eCl@ss 8.0 eCl@ss 9.0 eCl@ss 10.0 eCl@ss 11.0 | IEC 60947-5-2 90314990 27270910 27270910 27270910 27270910 27270910 27270910 |

Dimensioned drawings

All dimensions in millimeters



Beam spacing 5 mm А В

- Measurement field length 880 mm
- F M6 thread
- G Fastening groove
- Profile length 888 mm L Т
- Transmitter
- R Receiver
- 2.5 mm Υ



Electrical connection

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Connection 1

Pin

| Function | Connection to receiver |
|--------------------|------------------------|
| | Sync-input |
| | Voltage supply |
| Type of connection | Connector |
| Thread size | M12 |
| Туре | Male |
| Material | Metal |
| No. of pins | 5 -pin |
| Encoding | A-coded |

Pin assignment

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



| 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 |
|----------|------------------------------|------------------------|---|
| 50119616 | CML720i-R05-880.A/ CN-M12 | Light curtain receiver | Operating range: 0.1 3.5 m Interface: CANopen Connection: Connector, M12, Axial, 8 -pin |
| 50119806 | CML720i-R05-880.A/ CV-M12 | Light curtain receiver | Operating range: 0.1 3.5 m Analog outputs: 2 Piece(s), Voltage, Current Connection: Connector, M12, Axial, 8 -pin |
| 50123450 | CML720i-R05-880.A/ D3-M12 | Light curtain receiver | Operating range: 0.1 3.5 m Interface: RS 485 Modbus Connection: Connector, M12, Axial, 8 -pin |
| 50119725 | CML720i-R05-880.A/ L-M12 | Light curtain receiver | Operating range: 0.1 3.5 m Interface: IO-Link Connection: Connector, M12, Axial, 8 -pin |

Suitable receivers

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| | Part no. | Designation | Article | Description |
|---|----------|------------------------------|------------------------|---|
| Į | 50122955 | CML720i-R05-880.A/ PB-M12 | Light curtain receiver | Operating range: 0.1 3.5 m Interface: PROFIBUS DP Connection: Connector, M12, Axial, 8 -pin |
| Į | 50131910 | CML720i-R05-880.A/ PN-M12 | Light curtain receiver | Operating range: 0.1 3.5 m Interface: PROFINET 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 |
| ccc | Interface L: IO-Link /CN: CANopen /PB: PROFIBUS /PN: PROFINET /CV: Analog current and voltage output /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 | t 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.

 ${\ensuremath{\,\textcircled{\tiny \ensuremath{\,\Downarrow}}}}$ 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: |
|---|--|
| 9 | 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 |

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 |

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 |

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Accessories

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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 |
|---|---|
| 1 | Note: A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page. |