## SMART SENSOR BUSINESS

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Part no.: 50122896 CML720i-R05-1600.A/PB-M12 Light curtain receiver



Figure can vary

# Contents

- Technical data
- · Dimensioned drawings
- Electrical connection
- · Operation and display
- Suitable transmitters
- Part number code
- Notes
- Accessories

### Part no.: 50122896 – CML720i-R05-1600.A/PB-M12 – Light curtain receiver

#### **Technical data**

Basic data			
Series	720		
Operating principle	Throughbeam principle		
Device type	Receiver		
Contains	2x BT-NC sliding block		
Application	Object measurement		
Application			
One side design			
Special design	Crossed hear scenning		
Special design	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	1,600 mm		
Number of beams	320 Piece(s)		
Beam spacing	5 mm		
Measurement data			
Minimum object diameter	10 mm		
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	0 350 mA , The specified values refer to the entire package con- sisting of transmitter 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	Тур. 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			
Cycle time	10 ms		
Response time per beam	30 µs		

### Part no.: 50122896 – CML720i-R05-1600.A/PB-M12 – Light curtain receiver

Type      PROFIBUS DP        Function      Process        Service interface      Type        Type      IO-Link        IO-Link      Configuration via software        Service      Service        IO-Link      Configuration via software        Service      Service        Connection      Service        Connection      Axial        Connection 1      Configuration interface        Function      Configuration interface        Connection      Connector        Type of connector      Male        Material      Metal        No. of pins      8-pin        Encoding      Acoded        Connecton      Connector        Type of connector	Interface	
PROFIBUS DP        Function      Process        Service Interface      Type        Type      IO-Link        Function      Configuration via software Service        Function      Configuration via software Service        Connection      2 Piece(s)        Plag outlet      Axial        Connection 1      Configuration interface Connection to transmitter Signal IUT        Type of connection      Configuration interface Connection to transmitter Signal IUT        Type of connection      Connector        Thread size      M12        Type      Male        Material      Metal        No. of pins      8-pin        Encoding      A-coded        Connector      Thread size        Function      BUS IN Eucoding        Function      BUS IN Eucoding        Function      BUS IN Eucoding        Function      Confector        Thread size      M12        Type of connector      Thread size        Thread size      M12        Type of connector      Thread size        Thread size      M12 <tr< th=""><th></th><th>PROFIBUS DP</th></tr<>		PROFIBUS DP
Function      Process        Service interface      IO-Link        Type      IO-Link        Function      Configuration via software Service        Connection      2 Piece(s)        Number of connections      2 Piece(s)        Plog outlet      Axial        Connection 1      Configuration interface Commetion to trainstitler Signal OUT        Function      Configuration interface Commetion to trainstitler Signal OUT        Type of connection      Connector        Type of connection      A-coded        Connection 2      Function        Function      BUS N        Use of connection      Connector        Thread size      M12        Type for connection      Connector        Thread size      M12        Type for connection      Cubic		
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Type      IO-Link        Function      Configuration via software Service        Connection      2 Piece(s)        Plug outlet      Axial        Connection 1      Connection transmitter Signal IV Voltage supply        Type of connection      Connection T        Trans size      M12        Type of connection      Connection T        Trans size      M2        Type of connection      Connection T        Trans size      M2        Type of connection      Connector        Trans      8 -pin        Encoding      Acoded        Connector      T        Type of connection      Connector        Type of c	Samiaa interface	
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Number of connections      2 Piece(s)        Plug outlet      Axial        Connection 1      Configuration interface Connection to transmitter Signal NU Voltage supply        Type of connection      Connector        Thread size      M12        Type of connection      & Accoded        Material      Metal        No. of pins      8 -pin        Encoding      Accoded        Connector      Thread size        Function      BUS IN BUS SUT        Type of connection      Connector        Thread size      M12        Type of connection      Connector        Thread size      M12        Type      Fermale        Material      Metal        No. of pins      5-pin        Encoding      B-coded        Metrial      Metal        No. of pins      5-pin        Encoding      B-coded        Metarial      Metal        No. of pins      5-pin        Encoding      B-coded        Dimension (W x H x L)      29 mm x 35.4 mm x 1.675 mm        Neusing color      Sil		
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Signal OUT Voltage supply        Type of connection      Connector        Thread size      M12        Type of connection      Material        Material      Metal        No. of pins      8 -pin        Encoding      A-coded        Connection 2      Image: Supply Suppl	Function	Connection to transmitter
Voltage supply      Type of connection      Thread size      Male      Material      No. of pins      Encoding      A-coded      Connection 2      Function      BUS IN BUS OUT      Type of connection 0      Connector 1      Thread size      M12      Type of connection      BUS IN BUS OUT      Type of connection      Connector      Thread size      Material      No. of pins      Encoding      Size      Material      No. of pins      Encoding      Besign      Cubic      Dimension (W x H x L)      Design      Cubic      Dimension (W x H x L)      Plastic      Net weight      1,750 g      Housing material      Lencore      Ver      Ver of display      LED OLED display      Via optional mounting via optional mou		Signal IN
Thread size  M12    Type  Male    Material  Metal    No. of pins  8 -pin    Encoding  A-coded    Connection 2		Voltage supply
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Material      Metal        No. of pins      8 -pin        Encoding      A-coded        Connection 2      Function        Function      BUS IN BUS OUT        Type of connection      Connector        Thread size      M12        Type      Female        Material      Metal        No. of pins      5 -pin        Encoding      B-coded        Metal        Material      Metal        No. of pins      5 -pin        Encoding      B-coded        Methan x 1,675 mm        Housing material      Metal , Aluminum        Les cover material      Plastic        Net weight      1,750 g        Housing color      Silver        Type of fastening      Groove mounting device         LED OLED display        Number of LEDs      2 Piece(s)        Type of configuration      Software Trach-in	Thread size	M12
No. of pins8 -pinEncodingA-codedConnection 2FunctionBUS IN BUS OUTType of connectionConnectorThread sizeM12TypeFemaleMaterialMetalNo. of pins5 -pinEncodingB-codedMechanical dataOutputMetrialMetalNo. of pins5 -pinEncodingB-codedMechanical dataDesignCubicDimension (W x H x L)29 mm x 35.4 mm x 1.675 mmHousing materialMetal, AluminumLens cover materialPlasticNet weight1.750 gHousing colorSilverType of fasteningGroove mounting Via optional mounting deviceOperation and displayNumber of LEDs2 Plece(s)Type of configurationSoftware Tree/softwareType of configurationSoftware Tree/software	Туре	Male
Encoding    A-coded      Connection 2      Function    BUS IN BUS OUT      Type of connection    Connector      Thread size    M12      Type    Female      Material    Metal      No. of pins    5 -pin      Encoding    B-coded      Mechanical data    Cubic      Dimension (W x H x L)    29 mm x 35.4 mm x 1,675 mm      Housing material    Metal , Aluminum      Lens cover material    Plastic      Net weight    1,750 g      Housing color    Silver      Type of fastening    Groove mounting Via optional mounting device      Operation and display    LED olisplay      Number of LEDs    2 Piece(s)      Type of configuration    Software Treach-in	Material	Metal
Connection 2    BUS IN BUS OUT      Function    BUS OUT      Type of connection    Connector      Thread size    M12      Type    Female      Material    Metal      No. of pins    5 -pin      Encoding    B-coded      Mechanical data      Design    Cubic      Dimension (W x H x L)    29 mm x 35.4 mm x 1,675 mm      Housing material    Metal , Aluminum      Lens cover material    Plastic      Net weight    1,750 g      Housing color    Silver      Type of fastening    Groove mounting via optional mounting device      Operation and display      Type of display    LED OLEDS      Via potional mounting device    OLEDS      Type of configuration    Software Teach-in	No. of pins	8 -pin
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Type of connection    Connector      Thread size    M12      Type    Female      Material    Metal      No. of pins    5 -pin      Encoding    B-coded      Mechanical data      Design      Cubic      Dimension (W x H x L)    29 mm x 35.4 mm x 1,675 mm      Housing material    Metal , Aluminum      Lens cover material    Plastic      Net weight    1,750 g      Housing color    Silver      Type of fastening    Groove mounting via optional mounting device      Operation and display      Number of LEDs    2 Piece(s)      Type of configuration    Software Teach-in	Connection 2	
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No. of pins    5 -pin      Encoding    B-coded      Mechanical data       Design    Cubic      Dimension (W x H x L)    29 mm x 35.4 mm x 1,675 mm      Housing material    Metal , Aluminum      Lens cover material    Plastic      Net weight    1,750 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 Teach-in	Туре	Female
Encoding    B-coded      Mechanical data    Cubic      Design    Cubic      Dimension (W x H x L)    29 mm x 35.4 mm x 1,675 mm      Housing material    Metal , Aluminum      Lens cover material    Plastic      Net weight    1,750 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 Teach-in	Material	Metal
Mechanical data      Design    Cubic      Dimension (W x H x L)    29 mm x 35.4 mm x 1,675 mm      Housing material    Metal , Aluminum      Lens cover material    Plastic      Net weight    1,750 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 Teach-in	No. of pins	5 -pin
DesignCubicDimension (W x H x L)29 mm x 35.4 mm x 1,675 mmHousing materialMetal , AluminumLens cover materialPlasticNet weight1,750 gHousing colorSilverType of fasteningGroove mounting deviceOperation and displayType of displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-in	Encoding	B-coded
DesignCubicDimension (W x H x L)29 mm x 35.4 mm x 1,675 mmHousing materialMetal , AluminumLens cover materialPlasticNet weight1,750 gHousing colorSilverType of fasteningGroove mounting deviceOperation and displayType of displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-in	Mechanical data	
Dimension (W x H x L)29 mm x 35.4 mm x 1,675 mmHousing materialMetal , AluminumLens cover materialPlasticNet weight1,750 gHousing colorSilverType of fasteningGroove mounting Via optional mounting deviceOperation and displayType of displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-in		Cubic
Housing materialMetal , AluminumLens cover materialPlasticNet weight1,750 gHousing colorSilverType of fasteningGroove mounting via optional mounting deviceOperation and displayType of displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-in		
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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 Teach-in	Lens cover material	
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 Teach-in	Net weight	
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Operation and display      Type of display    LED OLED display      Number of LEDs    2 Piece(s)      Type of configuration    Software Teach-in	Type of fastening	Groove mounting
Type of displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-in		Via optional mounting device
Type of displayLED OLED displayNumber of LEDs2 Piece(s)Type of configurationSoftware Teach-in	Operation and display	
OLED display        Number of LEDs      2 Piece(s)        Type of configuration      Software Teach-in		LED
Type of configuration Software Teach-in		OLED display
Teach-in	Number of LEDs	
Operational controls Membrane keyboard	Type of configuration	
	Operational controls	Membrane keyboard

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### Part no.: 50122896 – CML720i-R05-1600.A/PB-M12 – Light curtain receiver

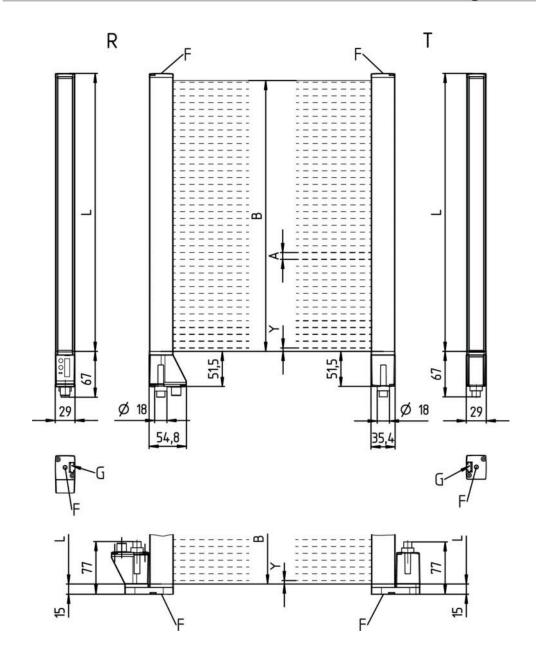
Environmental data			
Ambient temperature, operation	-30 60 °C		
Ambient temperature, storage	-40 70 °C	-40 70 °C	
Certifications			
Degree of protection	IP 65		
Protection class	III		
Certifications c CSA US			
Standards applied	IEC 60947-5-2		

Classification	
Customs tariff number	90314990
eCl@ss 8.0	27270910
eCl@ss 9.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549

#### **Dimensioned drawings**

All dimensions in millimeters

Part no.: 50122896 – CML720i-R05-1600.A/PB-M12 – Light curtain receiver



A Beam spacing 5 mm B Measurement field length 1600 mm

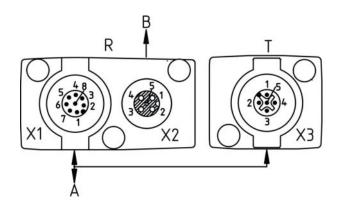
F M6 thread

- G Fastening groove
- L Profile length 1608 mm

T Transmitter

- R Receiver
- Y 2.5 mm

Part no.: 50122896 – CML720i-R05-1600.A/PB-M12 – Light curtain receiver



A PWR / SW IN/OUT B BUS IN / OUT

#### **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

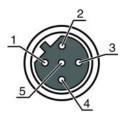
Pin	Pin assignment
1	V+
2	I/O 1
3	GND
4	IO-Link
5	I/O 2
6	RS 485 Tx+
7	RS 485 Tx+
8	FE/SHIELD



Connection 2		
Function	BUS IN BUS OUT	
Type of connection	Connector	
Thread size	M12	
Туре	Female	
Material	Metal	
No. of pins	5 -pin	
Encoding	B-coded	

### Part no.: 50122896 – CML720i-R05-1600.A/PB-M12 – Light curtain receiver

Pin	Pin assignment
1	V+
2	Tx-
3	PB GND
4	Tx+
5	FE/SHIELD



#### **Operation and display**

#### LEDs

LED	Display	Meaning
1	Green, continuous light	Operational readiness
	Green, flashing	Teach / error
		Measurement frequency display
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
50119387	CML720i- T05-1600.A-M12	Light curtain transmitter	Operating range: 0.1 3.5 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
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

### Part no.: 50122896 – CML720i-R05-1600.A/PB-M12 – Light curtain receiver

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 with all available device types can be found on the Leuze electronic website at www.leuze.com.

#### Notes

#### Observe intended use!

- This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons.
- Only use the product in accordance with its intended use.

#### 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

#### Part no.: 50122896 – CML720i-R05-1600.A/PB-M12 – Light curtain receiver

### Connection technology - Y distribution cables

	Part no.	Designation	Article	Description
		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
	50123265	K-YPB M12A-5m- M12A-S-PUR	Interconnection cable	Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Male, B-coded, 5 -pin Connection 2: Connector, M12, Axial, Female, B-coded, 5 -pin Connection 3: Connector, M12, Axial, Male, B-coded, 5 -pin Shielded: Yes Cable length fork 1: 5,000 mm Cable length fork 2: 250 mm Sheathing material: PUR

## Mounting technology - Mounting brackets

Part no.	Designation	Article	Description
50142900	BT 700M.5-2SET	Mounting device set	Contains: 2x mounting brackets, 1 teach template, 4 M6 x 10 screws 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	set	Contains: 2x BT-R swivel mount, 1 cylinder for mounting on the light curtain Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 360° Material: Metal, Plastic

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.

### Part no.: 50122896 – CML720i-R05-1600.A/PB-M12 – Light curtain receiver

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.

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