## SMART SENSOR BUSINESS

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Part no.: 50119983 CML720i-R40-2210.R/CN-M12 Light curtain receiver



Figure can vary

# Contents

- Technical data
- · Dimensioned drawings
- Electrical connection
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- Suitable transmitters
- Part number code
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- Accessories

### Part no.: 50119983 – CML720i-R40-2210.R/CN-M12 – Light curtain receiver

#### **Technical data**

Series   720     Operating principle   Throughbeam principle     Device type   Receiver     Contains   Accessories for the use of the BT-2R1     Application   Object measurement     Special design   Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning     Special design   Crossed-beam scanning     Optical data   Deprating range     Optical data   Operating range     Operating range   0.3 7 m     Opperating range limit   0.2 9 m     Weasurement field length   2,210 mm     Number of beams   55 Piece(s)     Beam spacing   40 mm     Vertextual protection Short circuit protected Through protection     Profermance data     Vertextual protection Short circuit protected Through protection	Basic data	
Operating principle Throughbeam principle   Device type Receiver   Contains Accessories for the use of the BT-2R1   Object measurement Object measurement   Special design Crossed-beam scanning Diagonal-beam scanning   Optical deta Details beam scanning   Optical deta Optical optical optical optical grange   Optical grange 0.3 7 m   Optical optical optical optical grange Optical optical grange   Optical optical optical grange Optical optical grange   Optical optical optical optical grange Optical optical optical grange   Optical optical optical optical optical grange Optical optical optical grange   Optical optical optical optical optical optical grange Optical		720
Device type     Receiver       Contains     Accessories for the use of the BT-2R1       Application     Object measurement       Special design     Crossed-heam scanning Diagonal-beam scanning       Special design     Crossed-heam scanning       Dyperating range     Guarantead operating range       Operating range     0.3 7 m       Operating range     0.1 7 m       Operating range     0.1 7 m       Measurement field length     2.210 mm       Winnbur object diameter     50 mm       Electrical data     P       Protocotot data     Stopf voltage Us       Parkoutup protection     Stopf voltage Us       Parkoutup protection     Stopf voltage Us       Open-circuit current     0		
Contains   Accessories for the use of the BT-ZR1     Application   Object measurement     Special design   Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning     Optical data   Crossed-beam scanning     Optical grange   0.3 7 m     Operating range   0.3 7 m     Operating range   0.3 7 m     Operating range   0.3 7 m     Operating range limit   Typical operating range     Operating range limit   0.2 9 m     Weasurement field length   2 210 mm     Winnber of beams   SE Prece(6)     Beam spacing   40 mm     Weasurement data   Serversal protection Short dictuit protected     Vinnum object diameter   50 mm     Electrical data   Serversal protection Short dictuit protected     Parformance date   Supply workey us     Supply workey us   18 30 V, DC     Residual tipple   0 15 %, From Un     Open-circuit current   0 45 %, From Un		
Application Object measurement   Special design Crossed-beam scanning Paralle-beam scanning   Special design Crossed-beam scanning   Optical data Crossed-beam scanning   Optical data Crossed-beam scanning   Optical data Crossed-beam scanning   Optical grange Guaranteed operating range   Operating range 0.3 7 m   Operating range limit 0.2 9 m   Operating range limit 0.2 9 m   Operating range limit 0.2 9 m   Mumber of beams 55 Piece(s)   Seam spacing 40 mm   Wessurement field length 2.10 mm   Wessurement data So mm   Protective circuit Polarity reversal protection Short circuit protected Transient protection   Protective circuit current So mm   Supply voltage US 18 30 V. DC   Peadouting of transiter and receiver. Open-circuit current   Open-circuit current 0		
Special design     Crossed-beam scanning Diagonal-beam scanning       Special design     Crossed-beam scanning Parallel-beam scanning       Operating range     Guaranteed operating range       Operating range     0.3 7 m       Operating range limit     0.2 9 m       Weasurement field length     2.2.10 mm       Number of beams     55 Piece(s)       Beam spacing     40 mm       Weasurement field length     2.2.10 mm       Number of beams     55 Piece(s)       Beam spacing     40 mm       Weasurement data     Minimum object diameter       Stont circuit protection Short circuit protected Transient protection     Short circuit protected Transient protection       Performance data     Supply voltage Un     18 30 V, DC       Residual ripple     0 15 %, From Un     Open-circuit current       Open-circuit current     0 435 mA, The specified values refer to the entire package cor sisting of transmiter and receiver.       Moutre of inputs/outputs selectable     Opencicuit curent     Guapt curent, max.		
Special design Crossed-beam scanning Diagonal-beam scanning Parallet-beam scanning Paralle	Application	
Special design Crossed-beam scanning Diagonal-beam scanning Parallet-beam scanning Paralle	Spacial design	
Diagonal-beam scanning     Parallel-beam scanning     Parallel-beam scanning     Operating range   Guaranteed operating range     Operating range   0.3 7 m     Operating range   0.3 7 m     Operating range   0.3 7 m     Operating range limit   0.2 9 m     Weasurement field length   2.210 mm     Number of beams   55 Piece(s)     Beam spacing   40 mm     Wesurement data   90     Winimum object diameter   50 mm     Electrical data   7     Protective circuit   Polarity reversal protection Short dircuit protection     Parallel-beam scanning   90     Paralle-beam scanning   90 <td></td> <td>Crossed beam scanning</td>		Crossed beam scanning
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   Saean spacing 40 mm   Wessurement data 40 mm   Winimum object diameter 50 mm   Electrical data 50 mm   Preformance data 50 mm   Preformance data 50 mm   Supply voltage UB 18 30 V, DC   Residual ripple 0 15 %, From UB   Operator current 0 45 % An, The specified values refer to the entire package cor sisting of transmitter and receiver.   Input selectable 0 0 mA   Output current, max. 100 mA   Input selectable 2 Piece(s)   Voltage type, outputs DC   Switching voltage, outputs DC   Switching voltage, outputs DC   Switching voltage, outputs high: 28V low: 54V   Voltage type, inputs DC   Switching voltage, inputs high: 28V low: 54V   Input/output 1 Tma   Activation/disable delay 1 ms		Diagonal-beam scanning
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   Saean spacing 40 mm   Wessurement data 40 mm   Winimum object diameter 50 mm   Electrical data 50 mm   Preformance data 50 mm   Preformance data 50 mm   Supply voltage UB 18 30 V, DC   Residual ripple 0 15 %, From UB   Operator current 0 45 % An, The specified values refer to the entire package cor sisting of transmitter and receiver.   Input selectable 0 0 mA   Output current, max. 100 mA   Input selectable 2 Piece(s)   Voltage type, outputs DC   Switching voltage, outputs DC   Switching voltage, outputs DC   Switching voltage, outputs high: 28V low: 54V   Voltage type, inputs DC   Switching voltage, inputs high: 28V low: 54V   Input/output 1 Tma   Activation/disable delay 1 ms	Optical data	
Dperating range   0.3 7 m     Dperating range limit   Typical operating range     Operating range limit   0.2 9 m     Veasurement field length   2.210 mm     Wumber of beams   55 Piece(s)     Beam spacing   40 mm     Weasurement data   40 mm     Vinimum object diameter   50 mm     Electrical data   50 mm     Protective circuit   Polarity reversal protection Short circuit protected Transient protection     Supply voltage UB   18 30 V , DC     Residual ripple   0 15 % , From UB     Open-circuit current   0 45 mA , The specified values refer to the entire package cor sisting of transmitter and receiver.     Input solutputs selectable   2 Piece(s)     Type   Inputs/outputs selectable     Output current, max.   100 mA     Input resistance   6,000 Ω     Number of inputs/outputs selectable   2 Piece(s)     Type   Inputs/outputs selectable     Voltage type, outputs   DC     Switching voltage, inputs   DC     Switching voltage, inputs   DC     Switching voltage, inputs   bigh: 86V lov     Voltage ty		Guaranteed operating range
Operating range limit   Typical operating range     Operating range limit   0.2 9 m     Veasurement field length   2.210 mm     Wumber of beams   55 Piece(s)     Beam spacing   40 mm     Veasurement data   40 mm     Vestigenent data   40 mm     Vestigenent data   56 Piece(s)     Protective circuit   Polarity reversal protection Short circuit protected Transient protection     Performance data   57 Piece(s)     Supply voltage UB   18 30 V, DC     Performance data   57 Piece(s)     Open-circuit current   0 45 %, From UB     Open-circuit current   0 435 mA, The specified values refer to the entire package cor sisting of transmitter and receiver.     Inputs/outputs selectable   2 Piece(s)     Type   Inputs/outp		
Operating range limit   0.2 9 m     Weasurement field length   2,210 mm     Yumber of beams   55 Piece(s)     Beam spacing   40 mm     Wessurement data   Winimum object diameter     So mm   So mm     Electrical data   Polarity reversal protection Short circuit protected Transient protection     Protective circuit   Polarity reversal protection Short circuit protected Transient protection     Supply voltage UB   18 30 V , DC     Residual ripple   0 435 mA , The specified values refer to the entire package cor sisting of transmitter and receiver.     Inputs/outputs selectable   0		
Weasurement field length   2,210 mm     Number of beams   55 Piece(s)     Beam spacing   40 mm     Wessurement data	Operating range limit	
Number of beams   55 Piece(s)     Beam spacing   40 mm     Wessurement data   Wessurement data     Vinimum object diameter   50 mm     Electrical data   Polarity reversal protection Short circuit protected Transient protected Transient protection     Performance data   Performance data     Supply voltage Us   18 30 V, DC     Residual ripple   0 15 %, From Us     Open-circuit current   0 435 mA, The specified values refer to the entire package cor sisting of transmitter and receiver.     Input solutours selectable   00 mA     Output current, max.   100 mA     Input resistance   6,000 Ω     Number of inputs/outputs selectable   2 Piece(s)     Type   Inputs/outputs selectable     Voltage type, outputs   DC     Switching voltage, outputs   DC     Switching voltage, inputs   Input     Readiness delay   1 ms		
Beam spacing 40 mm   Measurement data 50 mm   Minimum object diameter 50 mm   Electrical data Polarity reversal protection Short circuit protected Transient protection   Performance data Performance data   Supply voltage Up 18 30 V, DC   Residual ripple 0 15 %, From Up   Open-circuit current 0 435 mA, The specified values refer to the entire package cor sisting of transmitter and receiver.   Inputs/outputs selectable 0   Output current, max. 100 mA   Input resistance 6,000 Ω   Number of inputs/outputs selectable 2 Piece(s)   Type Inputs/outputs selectable   Voltage type, outputs DC   Switching voltage, inputs DC   Switching voltage, inputs DC   Switching voltage, inputs high: ≥6V low: ≤4V   Input/output 1 Activation/disable delay 1 ms	Number of beams	
Wessurement data     Winimum object diameter   50 mm     Electrical data   Polarity reversal protection Short circuit protected Transient protection     Performance data   Supply voltage Us     Supply voltage Us   18 30 V, DC     Residual ripple   0 15 %, From Us     Open-circuit current   0 435 mA, The specified values refer to the entire package cor sisting of transmitter and receiver.     Inputs/outputs selectable   0 Utput current, max.     Output current, max.   100 mA     Input resistance   6,000 Ω     Number of inputs/outputs selectable   2 Piece(s)     Type   Inputs/outputs selectable     Voltage type, outputs   DC     Switching voltage, outputs   DC     Switching voltage, inputs   DC     Switching voltage, inputs   high: 26V     Input/output 1   Insuit Selectable     Activation/disable delay   1 ms		
Minimum object diameter 50 mm   Electrical data Polarity reversal protection Short circuit protected Transient protection   Performance data Supply voltage Us   Supply voltage Us 18 30 V , DC   Residual ripple 0 15 % , From Us   Open-circuit current 0 435 mA , The specified values refer to the entire package cor sisting of transmitter and receiver.   Inputs/outputs selectable 0 Uput current, max.   Output current, max. 100 mA   Input resistance 6,000 Ω   Number of inputs/outputs selectable 2 Piece(s)   Type Inputs/outputs selectable   Voltage type, outputs DC   Switching voltage, outputs DC   Switching voltage, inputs DC   Switching voltage, inputs DC   Switching voltage, inputs high: ≥6V low: ≤4V   Input/output 1 Activation/disable delay   Activation/disable delay 1 ms		
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   0 435 mA , The specified values refer to the entire package cor sisting of transmitter and receiver.     Inputs/outputs selectable   Output current, max.     Output current, max.   100 mA     Input resistance   6,000 Ω     Number of inputs/outputs selectable   2 Piece(s)     Type   Inputs/outputs selectable     Voltage type, outputs   DC     Switching voltage, outputs   DC     Switching voltage, inputs   high: ≥6V low: ≤4V     Input/output 1 Activation/disable delay   1 ms     Timing   2.05 ms	Neasurement 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   0 435 mA , The specified values refer to the entire package cor sisting of transmitter and receiver.     Inputs/outputs selectable   0     Output current, max.   100 mA     Input resistance   6,000 Ω     Number of inputs/outputs selectable   2 Piece(s)     Type   Inputs/outputs selectable     Voltage type, outputs   DC     Switching voltage, outputs   DC     Switching voltage, inputs   DC     Switching voltage, inputs   DC     Switching voltage, inputs   DC     Input/output 1   Activation/disable delay     Activation/disable delay   1 ms	Minimum object diameter	50 mm
Supply voltage UB   18 30 V , DC     Residual ripple   0 15 % , From UB     Open-circuit current   0 435 mA , The specified values refer to the entire package cor sisting of transmitter and receiver.     Inputs/outputs selectable   0     Output current, max.   100 mA     Input resistance   6,000 Ω     Number of inputs/outputs selectable   2 Piece(s)     Type   Inputs/outputs selectable     Voltage type, outputs   DC     Switching voltage, outputs   DC     Switching voltage, inputs   N     Upper Second Sec	Protective circuit	Short circuit protected
Residual ripple   0 15 %, From UB     Open-circuit current   0 435 mA , The specified values refer to the entire package cor sisting of transmitter and receiver.     Inputs/outputs selectable   00 mA     Output current, max.   100 mA     Input resistance   6,000 Ω     Number of inputs/outputs selectable   2 Piece(s)     Type   Inputs/outputs selectable     Voltage type, outputs   DC     Switching voltage, outputs   DC     Switching voltage, inputs   DC     Switching voltage, inputs   DC     Switching voltage, inputs   high: ≥6V low: ≤4V     Input/output 1   Activation/disable delay     Activation/disable delay   1 ms     Cycle time   2.05 ms	Performance data	
Open-circuit current   0 435 mA , The specified values refer to the entire package corsisting of transmitter and receiver.     Inputs/outputs selectable   00 mA     Output current, max.   100 mA     Input resistance   6,000 Ω     Number of inputs/outputs selectable   2 Piece(s)     Type   Inputs/outputs selectable     Voltage type, outputs   DC     Switching voltage, outputs   DC     Switching voltage, inputs   Nagh: 26V     Input/output 1   Ins     Activation/disable delay   1 ms     Timing   2.05 ms     Cycle time   2.05 ms	Supply voltage UB	18 30 V , DC
isiting 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)     Type   Inputs/outputs selectable     Voltage type, outputs   DC     Switching voltage, outputs   DC     Switching voltage, inputs   high: ≥6V low: ≤4V     Input/output 1   Ims     Activation/disable delay   1 ms     Timing   2.05 ms     Cycle time   2.05 ms	Residual ripple	0 15 % , From U <sub>B</sub>
Output current, max.   100 mA     Input resistance   6,000 Ω     Number of inputs/outputs selectable   2 Piece(s)     Type   Inputs/outputs selectable     Voltage type, outputs   DC     Switching voltage, outputs   DC     Switching voltage, outputs   DC     Switching voltage, inputs   high: ≥6V low: ≤4V     Input/output 1   1 ms     Activation/disable delay   1 ms     Cycle time   2.05 ms		0 435 mA , The specified values refer to the entire package con
Input resistance   6,000 Ω     Number of inputs/outputs selectable   2 Piece(s)     Type   Inputs/outputs selectable     Voltage type, outputs   DC     Switching voltage, outputs   Typ. Ug / 0 V     Voltage type, inputs   DC     Switching voltage, inputs   DC     Switching voltage, inputs   DC     Input/output 1   Activation/disable delay     Activation/disable delay   1 ms	Inputs/outputs selectable	
Number of inputs/outputs selectable   2 Piece(s)     Type   Inputs/outputs selectable     Voltage type, outputs   DC     Switching voltage, outputs   Typ. UB / 0 V     Voltage type, inputs   DC     Switching voltage, inputs   DC     Switching voltage, inputs   DC     Switching voltage, inputs   high: ≥6V low: ≤4V     Input/output 1   Activation/disable delay     Activation/disable delay   1 ms     Timing   450 ms     Cycle time   2.05 ms	Output current, max.	100 mA
Type   Inputs/outputs selectable     Voltage type, outputs   DC     Switching voltage, outputs   Typ. U <sub>B</sub> / 0 V     Voltage type, inputs   DC     Switching voltage, inputs   DC     Switching voltage, inputs   DC     Input/output 1   Input/output 1     Activation/disable delay   1 ms     Timing     Readiness delay   450 ms     Cycle time   2.05 ms	Input resistance	6,000 Ω
Voltage type, outputs DC   Switching voltage, outputs Typ. U <sub>B</sub> / 0 V   Voltage type, inputs DC   Switching voltage, inputs DC   Switching voltage, inputs high: ≥6V low: ≤4V   Input/output 1   Activation/disable delay 1 ms	Number of inputs/outputs selectable	2 Piece(s)
Switching voltage, outputs Typ. UB / 0 V   Voltage type, inputs DC   Switching voltage, inputs high: ≥6V low: ≤4V   Input/output 1 1   Activation/disable delay 1 ms	Туре	Inputs/outputs selectable
Voltage type, inputs DC   Switching voltage, inputs high: ≥6V low: ≤4V   Input/output 1 1   Activation/disable delay 1 ms	Voltage type, outputs	
Switching voltage, inputs   high: ≥6V low: ≤4V     Input/output 1   Activation/disable delay     Activation/disable delay   1 ms     Timing   Readiness delay     Quelto time   2.05 ms	Switching voltage, outputs	Тур. U <sub>B</sub> / 0 V
Input/output 1   Activation/disable delay   1 ms	Voltage type, inputs	DC
Input/output 1     Activation/disable delay   1 ms     Timing     Readiness delay   450 ms     Cycle time   2.05 ms	Switching voltage, inputs	
Activation/disable delay   1 ms     Timing   450 ms     Readiness delay   450 ms     Cycle time   2.05 ms	Input/output 1	1011 11
Readiness delay 450 ms   Cycle time 2.05 ms		1 ms
Readiness delay 450 ms   Cycle time 2.05 ms	Timing	
Cycle time 2.05 ms		450 ms
·		

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### Part no.: 50119983 – CML720i-R40-2210.R/CN-M12 – Light curtain receiver

Interface	
Туре	CANopen
CANopen	Олторен
Function	Process
Service interface	
Туре	IO-Link
IO-Link	
Function	Configuration via software
	Service
Connection	
Number of connections	2 Piece(s)
Plug outlet	Rear side
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
Connection 2 Function	DUCIN
Function	BUS IN BUS OUT
Type of connection	Connector
Thread size	M12
Туре	Female
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 2,263 mm
Housing material	Metal , Aluminum
Lens cover material	Plastic
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 Teach-in
Operational controls	Membrane keyboard

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### Part no.: 50119983 – CML720i-R40-2210.R/CN-M12 – Light curtain receiver

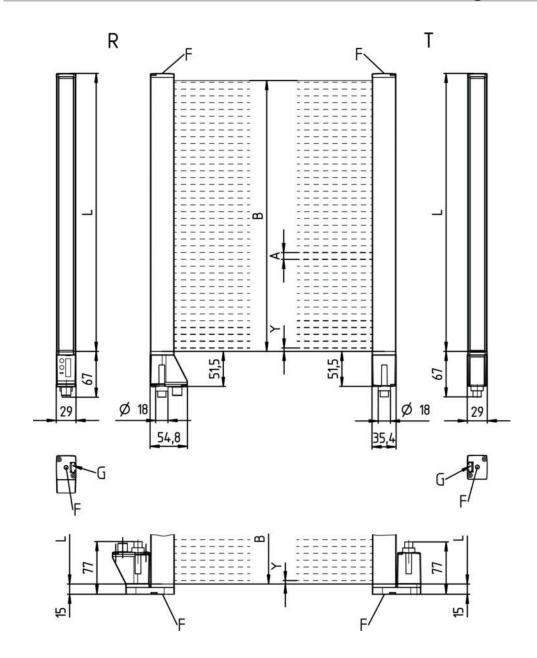
Environmental data		
Ambient temperature, operation	-30 60 °C	
Ambient temperature, storage	-40 70 °C	
Certifications		
Degree of protection	IP 65	
Protection class	III	
Certifications	c CSA US	
Standards applied	IEC 60947-5-2	

90314990
27270910
27270910
EC002549
EC002549

#### **Dimensioned drawings**

All dimensions in millimeters

Part no.: 50119983 – CML720i-R40-2210.R/CN-M12 – Light curtain receiver



A Beam spacing 40 mm B Measurement field length 2210 mm

F M6 thread

- G Fastening groove
- L Profile length 2248 mm

T Transmitter

R Receiver

Y 5 mm

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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

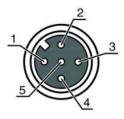
Pin	Pin assignment
1	V+
2	I/O 1
3	GND
4	IO-Link
5	I/O 2
6	RS 485 Tx+
7	RS 485 Tx+
8	FE/SHIELD



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

### Part no.: 50119983 – CML720i-R40-2210.R/CN-M12 – Light curtain receiver

Pin	Pin assignment
1	FE/SHIELD
2	n.c.
3	CAN GND
4	CAN H
5	CAN L



### **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
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
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.: 50119983 – CML720i-R40-2210.R/CN-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.: 50119983 – CML720i-R40-2210.R/CN-M12 – Light curtain receiver

### 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

## 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
4 4 4 4	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
ę.	429046	BT-2R1	Mounting bracket 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.: 50119983 – CML720i-R40-2210.R/CN-M12 – Light curtain receiver

### 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 electronic website in the Download tab of the article detailed page.