

Technical data sheet Contour measurement system

Part no.: 50143577

CMS708i-ENC1-0560-0560







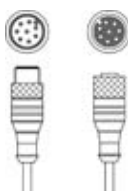


Figure can vary

Contents

- Set consists of
- Technical data
- Dimensioned drawings
- Electrical connection
- Diagrams
- Notes
- Accessories



Set consists of

	Quantity	Part no.	Designation	Article	Description
	2	424417	BT-2P40	Mounting bracket set	Bore hole 1: M6 Bore hole 2: M6 Design of mounting device: Mounting clamp Fastening, at system: Groove mounting Mounting bracket, at device: Groove mounting Type of mounting device: Clampable Material: Metal
	2	50118743	CML730i-R05-560.A/L-M12	Light curtain receiver	Operating range: 0.1 ... 4.5 m Interface: IO-Link Connection: Connector, M12, Axial, 8 -pin
	2	50118582	CML730i-T05-560.A-M12	Light curtain transmitter	Operating range: 0.1 ... 4 m Connection: Connector, M12, Axial, 5 -pin
	2	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
	3	50135146	KDS S-M12-8A-M12-8A-P1-050	Interconnection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 8 -pin Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	1	50144568	LMSMA35500024KH 10M16	Rotary encoder	
	1	50142930	LSC708-ENC-100	Switch cabinet	Supply voltage: 100 ... 263 V, AC Switching inputs: 4 Piece(s) Switching outputs: 4 Piece(s) Connections: 6 Piece(s)

Technical data

Basic data

Series	CMS 7xxi
Contains	1x dongle CMS700 1x rotary encoder
Order guide	Additional models on request

Functions

Functions	For a minimum object height ≥ 5 mm
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Optical data

Operating range	Guaranteed operating range
Operating range	0.1 ... 4.5 m
Operating range, transparent media	0.1 ... 1.75 m
Operating range limit	Typical operating range
Operating range limit	0.1 ... 6 m
Measurement field length 1	560 mm
Measurement field length 2	560 mm
Beam spacing	5 mm

Technical data

Electrical data

Protective circuit	Polarity reversal protection
	Short circuit protected
	Transient protection

Output current, continuous current per channel, max.	100 mA
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Performance data

Supply voltage U_B	100 ... 263 V, AC
Open-circuit current	250 mA

Inputs

Number of digital switching inputs	4 Piece(s)
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Switching inputs

Type	Digital switching input
Voltage type	DC
Switching voltage	24 V, VIN

Outputs

Number of digital switching outputs	4 Piece(s)
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Switching outputs

Type	Digital switching output
Voltage type	AC
Switching voltage	24 V, VIN

Interface

Type	EtherNet TCP/IP
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Ethernet

Function	Configuration / process data
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Connection

Number of connections	7 Piece(s)
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Connection 1

Function	Earthing
Type of connection	Earthing strap
Material	Metal

Connection 2

Function	Voltage supply
Type of connection	Harting connector
Material	Metal

Connection 3

Function	Width measuring light curtain connection
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

Connection 4

Function	Height measuring light curtain connection
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

Connection 5

Function	Rotary encoder connection (not in combination with length measuring light curtain)
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

Connection 6

Function	External Ethernet TCP/IP connection
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Connection 7

Function	PROFINET IN connection (optional)
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Mechanical data

Design	Cubic
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Housing color	Gray
	Red

Note	Dimensions of individual set items, see dimensioned drawings
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Operation and display

Note	This information refers to the switch cabinet
Type of display	LED
Number of LEDs	3 Piece(s)
Type of configuration	performed via webConfig
Operational controls	Rotary switch

Environmental data

Ambient temperature, operation	0 ... 45 °C
Ambient temperature, storage	-20 ... 70 °C

Technical data

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

Dimensioned drawings

All dimensions in millimeters

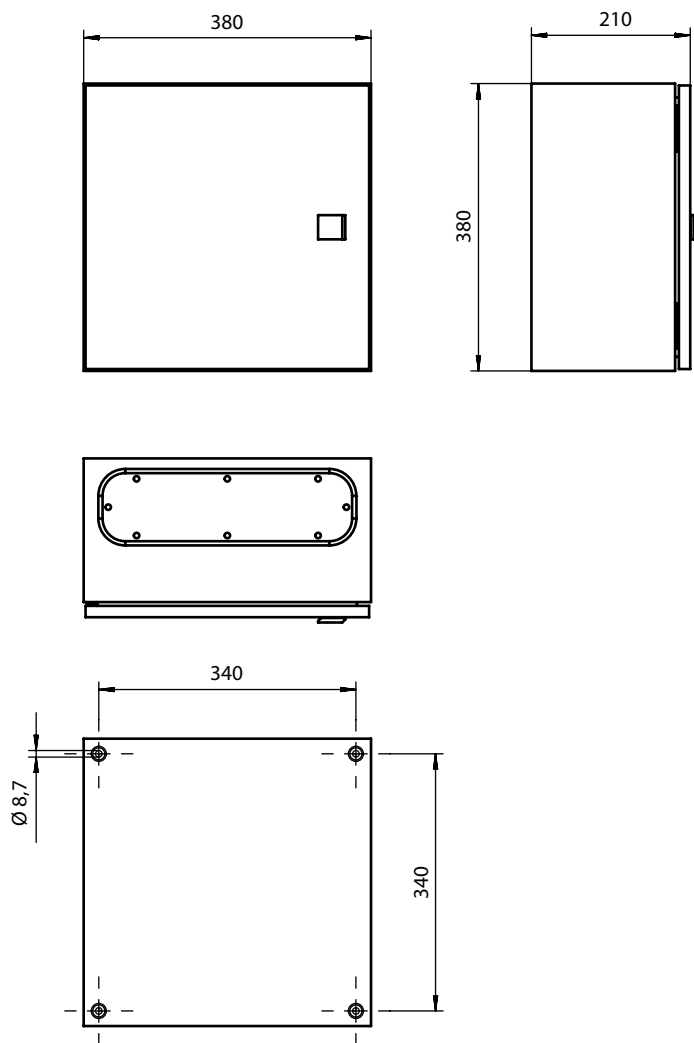
Light curtain transmitter and receiver



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|---|-------------------------------------|---|---------------------------|
| A | Beam spacing 5 mm | L | Profile length 1 = 568 mm |
| B | Measurement field length 1 = 560 mm | L | Profile length 2 = 568 mm |
| B | Measurement field length 2 = 560 mm | T | Transmitter |
| F | M6 thread | R | Receiver |
| G | Fastening groove | Y | 2.5 mm |

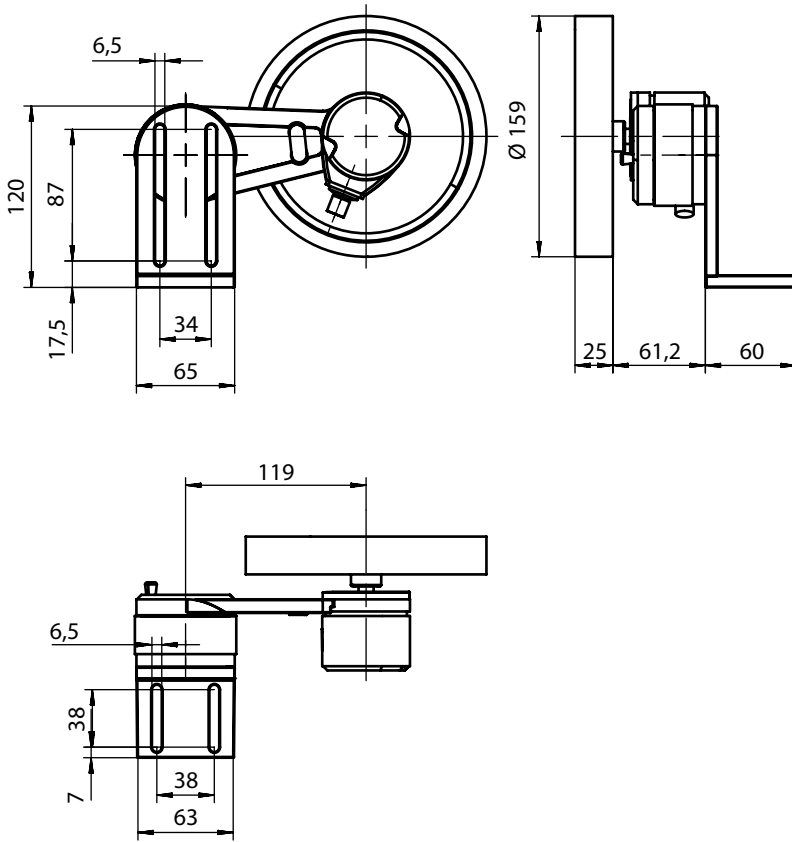
Dimensioned drawings

Switch cabinet



Dimensioned drawings

Rotary encoders



Dimensioned drawings

Rotary encoders



Electrical connection

Connection 1

Function	Earthing
Type of connection	Earthing strap
Material	Metal

Connection 2

XS1000

Function	Voltage supply
Type of connection	Harting connector
Material	Metal

Connection 3

XS1301

Function	Width measuring light curtain connection
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

Electrical connection

Pin	Pin assignment
1	V+
2	IO1
3	GND
4	IO-Link
5	IO2
6	IO3
7	IO4
8	GND



Connection 4	XS1302
Function	Height measuring light curtain connection
Type of connection	Connector
Thread size	M12
Type	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	IO3
7	IO4
8	GND



Connection 5	XS1400
Function	Rotary encoder connection (not in combination with length measuring light curtain)
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

Pin	Pin assignment
1	U-
2	U+
3	A
4	B
5	N
6	A inv.
7	B inv.
8	N inv.
9	Shield



Electrical connection

Connection 6

XETH1

Function	External Ethernet TCP/IP connection
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Pin	Pin assignment
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1	TD+
2	RD+
3	TD-
4	RD-



Connection 7

XS1100

Function	PROFINET IN connection (optional)
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Pin	Pin assignment
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1	TD+
2	RD+
3	TD-
4	RD-



Diagrams



x Total measuring length from width and height measuring light curtain [mm]
 y Max. conveyor speed [m/s]

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.

Accessories

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
 	50135082	KSS ET-M12-4A-RJ45-A-P7-100	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR

Accessories

	Part no.	Designation	Article	Description
     	50135083	KSS ET-M12-4A-RJ45-A-P7-150	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 15,000 mm Sheathing material: PUR
     	50135084	KSS ET-M12-4A-RJ45-A-P7-300	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 30,000 mm Sheathing material: PUR

Mounting technology - Other

Part no.	Designation	Article	Description
50143670	BT 708M-MRSET	Mounting device set	Design of mounting device: Profile kit Fastening, at system: Screw type / vertical Mounting bracket, at device: Groove mounting Type of mounting device: Rigid Material: Aluminum
50143671	BT 70EM-MRSET	Mounting device set	Design of mounting device: Profile kit Fastening, at system: Screw type / vertical Mounting bracket, at device: Groove mounting Type of mounting device: Rigid Material: Aluminum
50143669	BT 710M-MRSET	Mounting device set	Design of mounting device: Profile kit Fastening, at system: Screw type / vertical Mounting bracket, at device: Groove mounting Type of mounting device: Rigid Material: Aluminum
50142039	BT 712M-MRSET	Mounting device set	Design of mounting device: Profile kit Fastening, at system: Screw type / vertical Mounting bracket, at device: Groove mounting Type of mounting device: Rigid Material: Aluminum

Note



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