

Technical data sheet

Switch cabinet

Part no.: 50142931

LSC748-ENC-100

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Notes
- Accessories



For illustration purposes only

Technical data

Basic data

Series	CMS 7xxi
Suitable for	CMS 700i contour measurement system

Electrical data

Protective circuit	Polarity reversal protection
	Short circuit protected
	Transient protection
Output current, continuous current per channel, max.	100 mA

Performance data

Supply voltage U_B	100 ... 263 V
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, PROFINET
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Ethernet

Function	Configuration / process data
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PROFINET

Function	Configuration / process data
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Connection

Number of connections	13 Piece(s)
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Connection 1

Function	Earthing
Type of connection	Screw fitting
Material	Metal

Connection 2

Function	Voltage supply
Type of connection	Mains plug
Material	Metal

Connection 3

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

Connection 4

Type of connection	Connector
Thread size	M12
Type	Female
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	Female
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

Connection 6

Function	Digital switching input
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Connection 7

Function	Digital switching input
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Connection 8

Function	Digital switching output
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Connection 9

Function	Digital switching output
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Mechanical data

Design	Cubic
Dimension (W x H x L)	380 mm x 380 mm x 210 mm
Housing material	Metal
Housing color	Gray

Technical data

Operation and display

Type of display	LED
Number of LEDs	3 Piece(s)
Type of configuration	performed via webConfig
Operational controls	Rotary switch

Environmental data

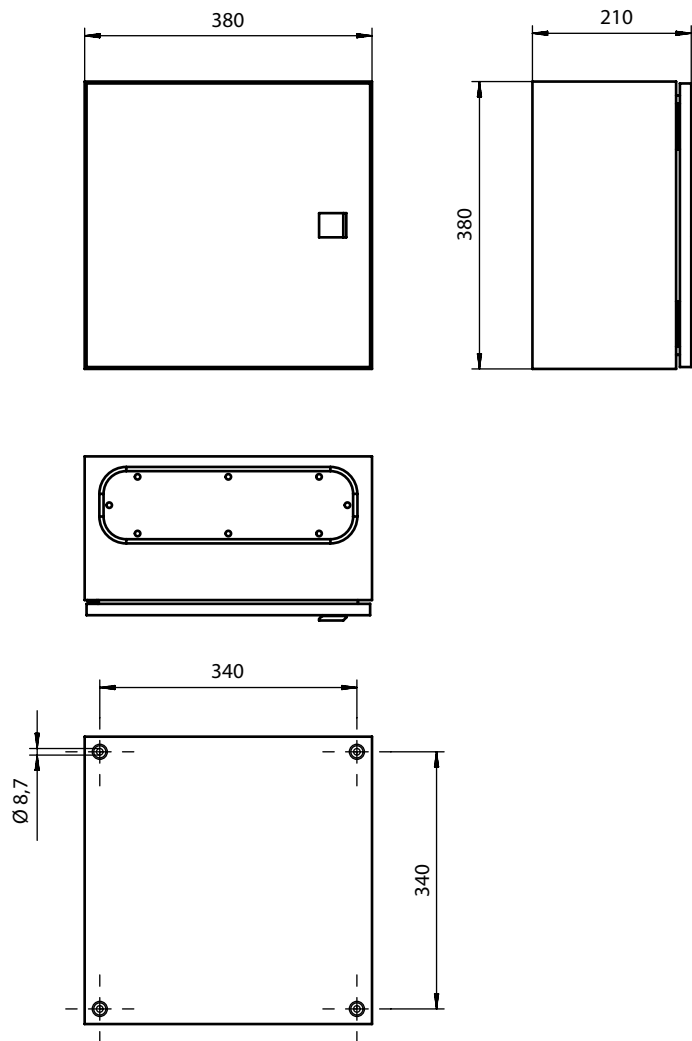
Ambient temperature, operation	0 ... 45 °C
Ambient temperature, storage	-20 ... 70 °C

Classification

ECLASS 5.1.4	27279290
ECLASS 8.0	27279290
ECLASS 9.0	27270992
ECLASS 10.0	27270992
ECLASS 11.0	27270992
ECLASS 12.0	27270992
ECLASS 13.0	27270992
ECLASS 14.0	27270992
ECLASS 15.0	27270992
ETIM 5.0	EC002498
ETIM 6.0	EC003015
ETIM 7.0	EC003015
ETIM 8.0	EC003015
ETIM 9.0	EC003015
ETIM 10.0	EC003015

Dimensioned drawings

All dimensions in millimeters



Dimensioned drawings

Switch cabinet connection diagram



Electrical connection

Connection 1

Function	Earthing
Type of connection	Screw fitting
Material	Metal

Connection 2

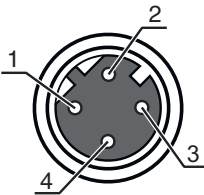
Function	Voltage supply
Type of connection	Mains plug
Material	Metal

Connection 3

ETH1

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

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



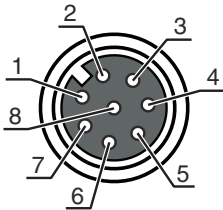
Electrical connection

Connection 4

CML1 / CML2 / CML3

Type of connection	Connector
Type of connection	applicable for the connections CML1, CML2 and CML3
Thread size	M12
Type	Female
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

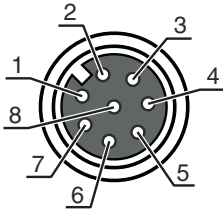


Connection 5

Encoder

Function	Rotary encoder connection (not in combination with length measuring light curtain)
Type of connection	Connector
Thread size	M12
Type	Female
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.

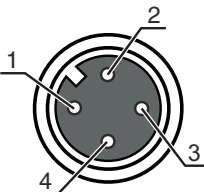


Connection 6

DI1

Function	Digital switching input
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Pin	Pin assignment
1	+24 V
2	DI1
3	GND
4	DI2



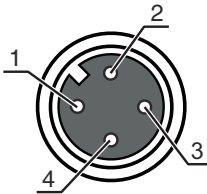
Electrical connection

Connection 7

DI2

Function	Digital switching input
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Pin	Pin assignment
1	+24 V
2	DI3
3	GND
4	DI4

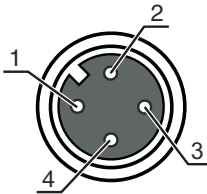


Connection 8

DO1

Function	Digital switching output
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Pin	Pin assignment
1	+24 V
2	DO1
3	GND
4	DO2

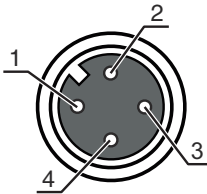


Connection 9

DO2

Function	Digital switching output
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

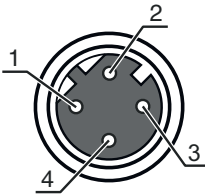
Pin	Pin assignment
1	+24 V
2	DO3
3	GND
4	DO4



Electrical connection

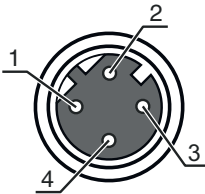
Connection 10		FB In
Function	PROFINET IN connection (optional)	
Type of connection	Connector	
Thread size	M12	
Type	Female	
Material	Metal	
No. of pins	4 -pin	
Encoding	D-coded	

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



Connection 11		FB Out
Function	PROFINET OUT connection (optional)	
Type of connection	Connector	
Thread size	M12	
Type	Female	
Material	Metal	
No. of pins	4 -pin	
Encoding	D-coded	

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



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
   	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

Note

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