

Technical data sheet

Ethernet switch

Part no.: 50135197

MD 708-21-82/D4-12

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display
- Notes
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For illustration purposes only



Ethernet

Technical data

Basic data

Series	MD 700i
Suitable for	Ethernet

Functions

Functions	Autocrossing
	Autonegotiation
	Full duplex
	Unmanaged

Electrical data

Performance data	
Supply voltage U_B	18 ... 30 V, DC, Redundant
Current consumption, max.	195 mA

Interface

Type	Ethernet
Ethernet	
Address assignment	None
Transmission speed	10 / 100 Mbit/s
Switch functionality	Integrated

Connection

Number of connections	9 Piece(s)
Connections for voltage supply	1 Piece(s)
Number of interface connections	8 Piece(s)

Connection 1

Function	Voltage supply
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Connection 2

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Connection 3

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Connection 4

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Connection 5

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Connection 6

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Connection 7

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Connection 8

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Connection 9

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Mechanical data

Design	Cubic
Dimension (W x H x L)	55 mm x 21 mm x 145 mm
Housing material	Metal
Net weight	485 g
Housing color	Silver
Type of fastening	Through-hole mounting

Technical data

Operation and display

Type of display	LED
Number of LEDs	10 Piece(s)

Environmental data

Ambient temperature, operation	-25 ... 60 °C
Ambient temperature, storage	-40 ... 80 °C

Certifications

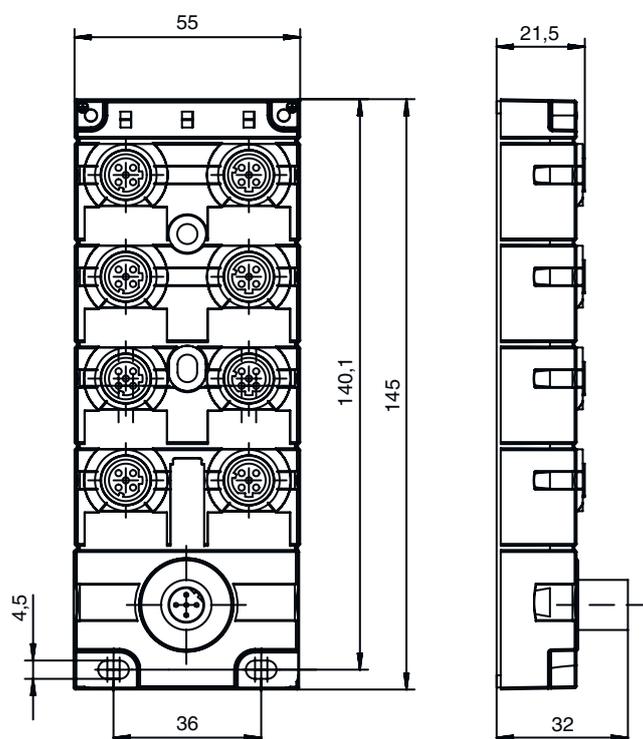
Degree of protection	IP 67
Approvals	c UL US

Classification

Customs tariff number	85176200
ECLASS 5.1.4	19030117
ECLASS 8.0	19170106
ECLASS 9.0	19170106
ECLASS 10.0	19170490
ECLASS 11.0	19170490
ECLASS 12.0	19170490
ECLASS 13.0	19170490
ECLASS 14.0	19170490
ECLASS 15.0	19170490
ECLASS 16.0	19170490
ETIM 5.0	EC000734
ETIM 6.0	EC000734
ETIM 7.0	EC000734
ETIM 8.0	EC000734
ETIM 9.0	EC000734
ETIM 10.0	EC000734

Dimensioned drawings

All dimensions in millimeters



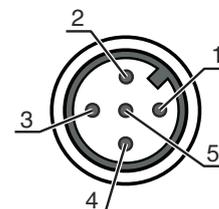
Electrical connection

Connection 1

Function	Voltage supply
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin Pin assignment

Pin	Pin assignment
1	+24 V DC
2	+24 V DC
3	0 V DC
4	0 V DC
5	GND / Ground



Connection 2

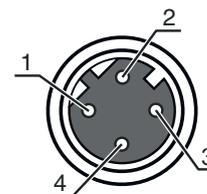
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Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Electrical connection

Pin Pin assignment

Pin	Pin assignment
1	Tx+
2	Rx+
3	Tx-
4	Rx-

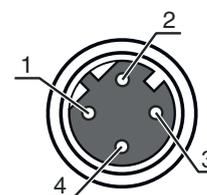


Connection 3 1

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Pin Pin assignment

Pin	Pin assignment
1	Tx+
2	Rx+
3	Tx-
4	Rx-

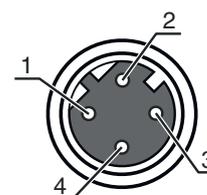


Connection 4 2

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Pin Pin assignment

Pin	Pin assignment
1	Tx+
2	Rx+
3	Tx-
4	Rx-



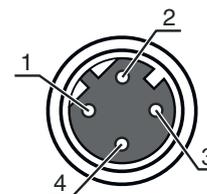
Connection 5 3

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Electrical connection

Pin Pin assignment

Pin	Pin assignment
1	Tx+
2	Rx+
3	Tx-
4	Rx-



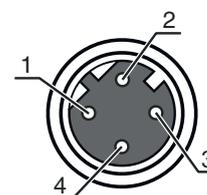
Connection 6

4

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Pin Pin assignment

Pin	Pin assignment
1	Tx+
2	Rx+
3	Tx-
4	Rx-



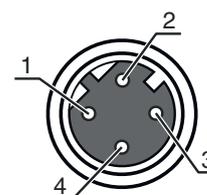
Connection 7

5

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Pin Pin assignment

Pin	Pin assignment
1	Tx+
2	Rx+
3	Tx-
4	Rx-



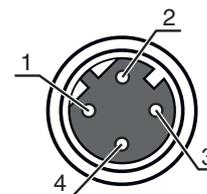
Connection 8

6

Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

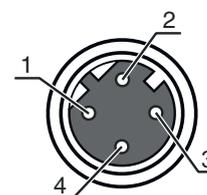
Electrical connection

Pin	Pin assignment
1	Tx+
2	Rx+
3	Tx-
4	Rx-



Connection 9	7
Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Pin	Pin assignment
1	Tx+
2	Rx+
3	Tx-
4	Rx-



Operation and display

LED	Display	Meaning
1 UB1	Green, continuous light	Voltage supply OK
	Red, continuous light	Undervoltage < 17 V
2 UB2	Green, continuous light	Voltage supply OK
	Red, continuous light	Undervoltage < 17 V
3 0 to 7	Green, continuous light	100 Mbit/s
	Yellow, continuous light	10 Mbit/s
	Green, flashing	Data exchange active
	Yellow, flashing	Data exchange active

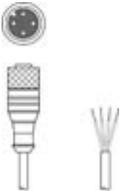
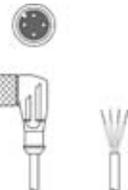
Notes

Observe intended use!

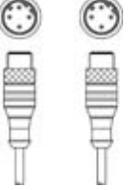
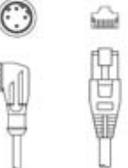
	<ul style="list-style-type: none"> ⚡ This product is not a safety sensor and is not intended as personnel protection. ⚡ The product may only be put into operation by competent persons. ⚡ Only use the product in accordance with its intended use.
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Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50130726	KD S-M12-4A-P1-050	Connection cable	Application: Oil and lubricant resistant Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	50130729	KD S-M12-4W-P1-050	Connection cable	Application: Oil and lubricant resistant Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50137078	KSS ET-M12-4A-M12-4A-P7-050	Interconnection cable	Application: Oil and lubricant resistant Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Connector, M12, Axial, Male, D-coded, 4 -pin Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	50136183	KSS ET-M12-4W-RJ45-A-P7-050	Interconnection cable	Application: Oil and lubricant resistant Suitable for interface: Ethernet Connection 1: Connector, M12, Angled, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 5,000 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.