

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
- Accessories



Figure can vary



Technical data

Basic data

Suitable for	Ethernet
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Functions

Functions	Autocrossing
	Autonegotiation
	Full duplex
	Unmanaged

Electrical data

Performance data	
Supply voltage U_B	18 ... 30 V, DC, Redundant

Interface

Type	Ethernet
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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

Dimension (W x H x L)	55 mm x 21 mm x 145 mm
Housing material	Metal
Net weight	485 g

Technical data

Environmental data

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

Certifications

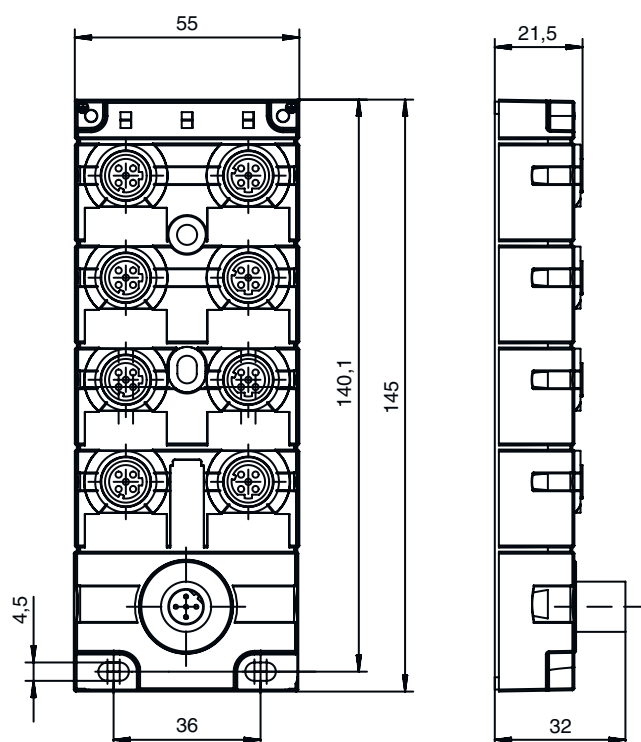
Degree of protection	IP 67
Certifications	c UL US

Classification

Customs tariff number	85176200
eCl@ss 8.0	19170106
eCl@ss 9.0	19170106
ETIM 5.0	EC000734
ETIM 6.0	EC000734

Dimensioned drawings

All dimensions in millimeters



Electrical connection

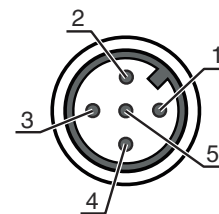
Connection 1

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

Electrical connection

Pin Pin assignment

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



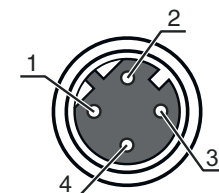
Connection 2

0

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-



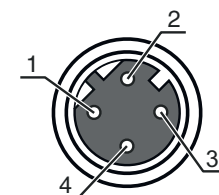
Connection 3

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

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



Connection 4

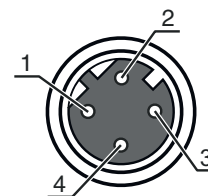
2

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

Electrical connection

Pin Pin assignment

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



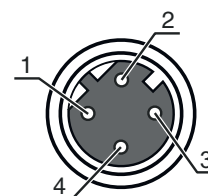
Connection 5

3

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

Pin Pin assignment

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



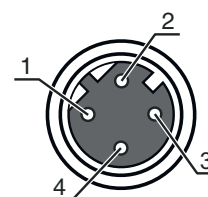
Connection 6

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

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



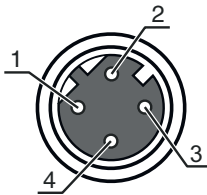
Connection 7

5

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

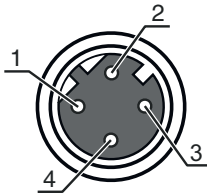
Electrical connection

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



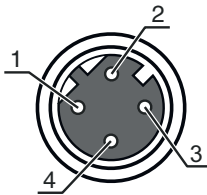
Connection 8	6
Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

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!



- ⚠ 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 - Connection cables

	Part no.	Designation	Article	Description
	50130726	KD S-M12-4A-P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	50130729	KD S-M12-4W-P1-050	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin 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	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: 1,000 mm Sheathing material: PUR
	50136183	KSS ET-M12-4W-RJ45-A-P7-050	Interconnection cable	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.