

## Technical data sheet

### Ethernet switch

Part no.: 50135196

MD 708-21-42/D4-12

#### Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display
- Accessories



For illustration purposes only



Ethernet

## Technical data

### Basic data

Series	MD 700i
Suitable for	Ethernet

### Functions

Functions	Autocrossing
	Autonegotiation
	Full duplex
	Unmanaged

### Electrical data

<b>Performance data</b>	
Supply voltage $U_B$	18 ... 30 V, DC, Redundant

### Interface

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

### Connection

Number of connections	5 Piece(s)
Connections for voltage supply	1 Piece(s)
Number of interface connections	4 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

### Mechanical data

Design	Cubic
Dimension (W x H x L)	55 mm x 21 mm x 95 mm
Housing material	Metal
Net weight	335 g
Housing color	Silver
Type of fastening	Through-hole mounting

### Operation and display

Type of display	LED
Number of LEDs	6 Piece(s)

### Environmental data

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

### Certifications

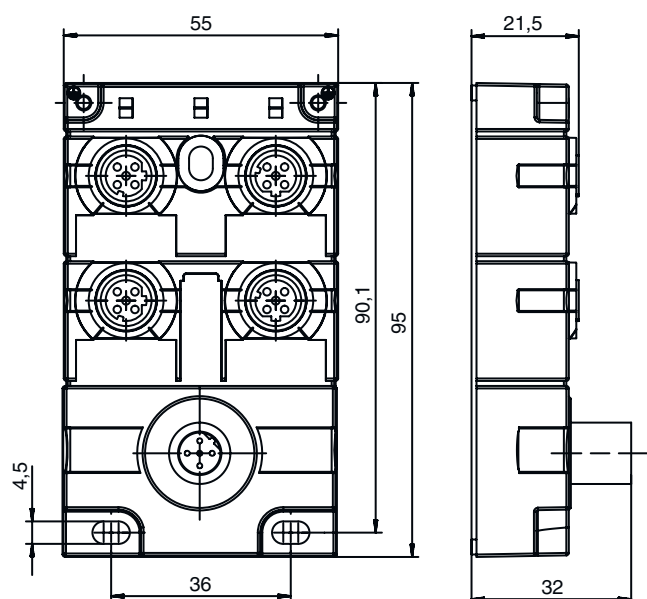
Degree of protection	IP 67
Approvals	c UL US

### 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
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



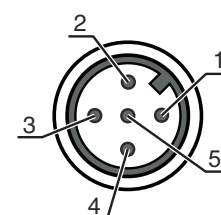
## Electrical connection

### 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

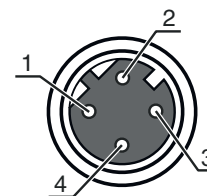
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Function	Data interface
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

## Electrical connection

### Pin Pin assignment

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

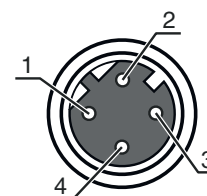


### Connection 3 1

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-

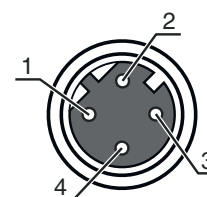


### Connection 4 2

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

### Pin Pin assignment

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

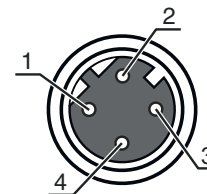


### Connection 5 3

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

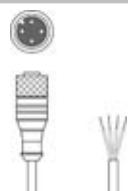



## Operation and display

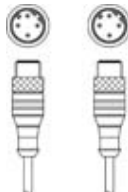
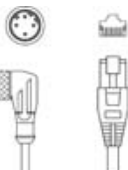
LED	Display	Meaning
1 UB1	Green, continuous light	Voltage supply OK
	Red, continuous light	Undervoltage < 17 V
2 UB2	Green, continuous light	Voltage supply OK
	Red, continuous light	Undervoltage < 17 V
3 0 to 3	Green, continuous light	100 Mbit/s
	Yellow, continuous light	10 Mbit/s
	Green, flashing	Data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

## 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 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	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	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	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

## Accessories

### Note



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