



Part no.: 50138212
MD 748iC-11-82/L5-2222 F001
Distribution box



Figure can vary

Contents

- Technical data
- Electrical connection
- Accessories

Technical data

Basic data	
Type	IO-Link master

Electrical data	
Performance data	
Supply voltage U_B	20 ... 30 V , DC
Current consumption, max.	12,000 mA
Outputs	
Number of digital switching outputs for each sensor connection	1 Piece(s)

Interface	
Type	IO-Link OPC UA PROFINET
IO-Link	
COM mode	COM1 COM2 COM3
Port type	A
Specification	V1.0.1 V1.1
SIO-mode support	Yes
Profinet	
Conformance class	B
Protocol	PROFINET RT
Switch functionality	Integrated
Transmission speed	10 Mbit/s 100 Mbit/s

Connection	
Number of connections	12 Piece(s)
Sensor connections	8 Piece(s)
Connections for voltage supply	2 Piece(s)
Number of interface connections	2 Piece(s)
Connection 1	
Type of connection	Connector
Function	Connection to 8 sensors
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded
Connection 2	
Type of connection	Connector
Function	Voltage supply
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	L-coded

Connection 3

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

Connection 4

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

Connection 5

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

Mechanical data

Dimension (W x H x L)	65 mm x 30 mm x 212 mm
Housing material	Plastic
Net weight	454 g

Environmental data

Ambient temperature, operation	-25 ... 60 °C
Ambient temperature, storage	-40 ... 70 °C

Certifications

Degree of protection	IP 67
Certifications	c UL US

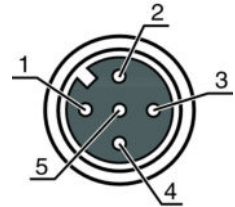
Classification

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

Electrical connection

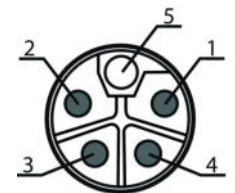
Connection 1	1 - 8
Type of connection	Connector
Function	Connection to 8 sensors
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin	Pin assignment
1	L+
2	IN1
3	L-
4	IO-Link / OUT 1 / IN 1
5	n.c.



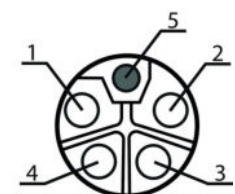
Connection 2	PWR IN
Type of connection	Connector
Function	Voltage supply
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	L-coded

Pin	Pin assignment
1	US+
2	UA-
3	US-
4	UA+
5	N/A



Connection 3	PWR OUT
Type of connection	Connector
Function	Voltage supply
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	L-coded

Pin	Pin assignment
1	US+
2	UA-
3	US-

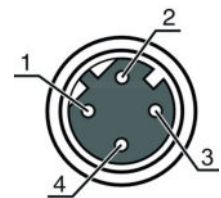


Part no.: 50138212 – MD 748iC-11-82/L5-2222 F001 – Distribution box

Pin	Pin assignment
4	UA+
5	N/A

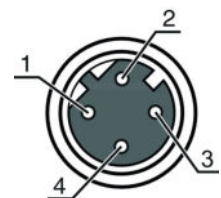
Connection 4	ETH1
Type of connection	Connector
Function	Data interface
Thread size	M12
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

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




Connection 5	ETH2
Type of connection	Connector
Function	Data interface
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-


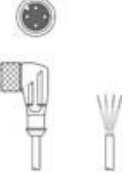


Accessories

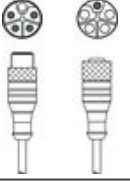
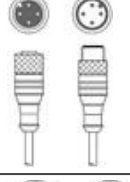

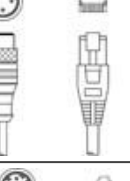
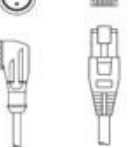
Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50141463	KD PL-M12-5A-P0-050	Connection cable	Connection 1: Connector, M12, Axial, Male, L-coded, 5 -pin Shielded: No Cable length: 5,000 mm Sheathing material: PUR

Part no.: 50138212 – MD 748iC-11-82/L5-2222 F001 – Distribution box

	Part no.	Designation	Article	Description
	50130657	KD U-M12-4A-P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
	50130694	KD U-M12-4W-P1-050	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50141462	KDS PL-M12-5A-M12-5A-P0-020	Interconnection cable	Connection 1: Connector, M12, Axial, Male, L-coded, 5 -pin Connection 2: Connector, M12, Axial, Female, L-coded, 5 -pin Shielded: No Cable length: 2,000 mm Sheathing material: PUR
	50130743	KDS U-M12-4A-M12-4A-P1-050	Interconnection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 4 -pin Shielded: No Cable length: 5,000 mm Sheathing material: PUR
	50130761	KDS U-M12-4A-M12-4W-P1-050	Interconnection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Connector, M12, Angled, Male, A-coded, 4 -pin Shielded: No Cable length: 5,000 mm Sheathing material: PUR
	50135081	KSS ET-M12-4A-RJ45-A-P7-050	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 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

Note

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