

Technical data sheet RFID read/write device

Part no.: 50150661

RDH 202 00

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For illustration purposes only



Technical data

Basic data

Series	RDH 200
Working frequency	13.56 MHz

Functions

Functions	Configurable operating modes
	I/O
	LED indicator
	Reading gate control

Read data

Reading/writing range, max.	120 mm
Transponder, readable	ISO/IEC 14443A/B
	ISO/IEC 15693
	NFC Types 2, 5

Electrical data

Performance data

Supply voltage U_B	18 ... 36 V, DC
Power consumption, max.	2 W
Memory access	Read/Write

Inputs

Number of digital switching inputs	1 Piece(s)
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Outputs

Number of digital switching outputs	1 Piece(s)
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Interface

Type	RS 232
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RS 232

Function	Process
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Connection

Number of connections	1 Piece(s)
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Connection 1

Function	I/O
	PWR
	RS 232
Type of connection	Connector
Thread size	M12

Mechanical data

Design	Cubic
Dimension (W x H x L)	99 mm x 42 mm x 68 mm
Housing material	Plastic
Net weight	120 g
Housing color	Red
	Silver
Type of fastening	Through-hole mounting

Environmental data

Ambient temperature, operation	-32 ... 60 °C
Ambient temperature, storage	-40 ... 85 °C
Relative humidity (non-condensing)	0 ... 90 %

Certifications

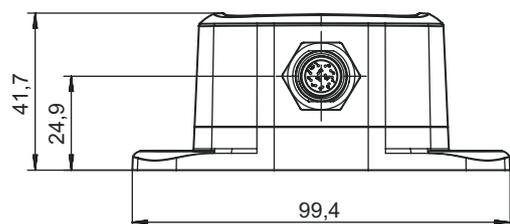
Degree of protection	IP 67
Approvals	EU

Classification

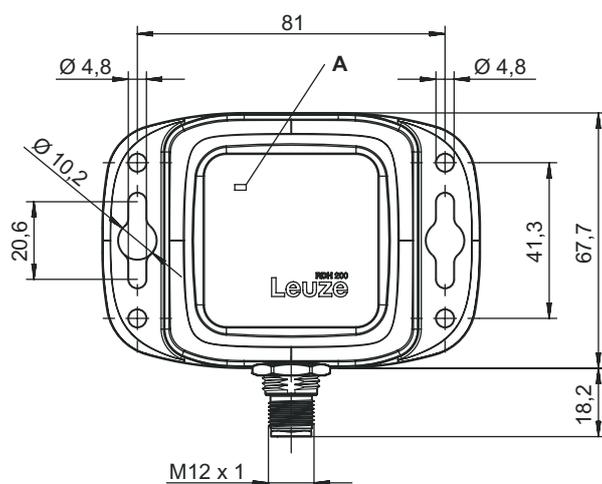
Customs tariff number	84719000
ECLASS 5.1.4	27280401
ECLASS 8.0	27280401
ECLASS 9.0	27280401
ECLASS 10.0	27280401
ECLASS 11.0	27280401
ECLASS 12.0	27280401
ECLASS 13.0	27280401
ECLASS 14.0	27280401
ECLASS 15.0	27280401
ECLASS 16.0	27280401
ETIM 5.0	EC001825
ETIM 6.0	EC002998
ETIM 7.0	EC002998
ETIM 8.0	EC002998
ETIM 9.0	EC002998
ETIM 10.0	EC002998

Dimensioned drawings

All dimensions in millimeters



A LED indicator



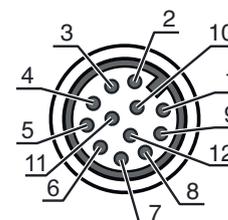
Electrical connection

Connection 1

Function	I/O
	PWR
	RS 232
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	12 -pin
Encoding	A-coded

Pin Pin assignment

Pin	Pin assignment
1	VCC
2	GND
3	SWIN 1
4	SWOUT 1
5	PE
6	n.c.
7	n.c.
8	n.c.
9	RxD
10	TxD
11	SWIN 2
12	SWOUT 2



Operation and display

LED	Display	Meaning
1	Red, continuous light	Error / Initialization
	Green, continuous light	Operational readiness / Antenna not active
	Yellow, flashing, 4 Hz	Antenna active / Tag detected
	Yellow, continuous light	Antenna active / No tag detected
	Off	No power supply / Hardware defective

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.

Further information

- Under certain circumstances, metal in the reading field reduces the operating range considerably.

Accessories

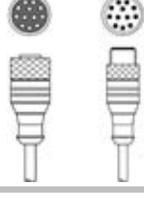
Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50143725	KD S-M12-CA-P1-003	Connection cable	Application: Oil and lubricant resistant Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 300 mm Sheathing material: PUR
	50130281	KD S-M12-CA-P1-020	Connection cable	Application: Oil and lubricant resistant Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR
	50130282	KD S-M12-CA-P1-050	Connection cable	Application: Oil and lubricant resistant Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	50130283	KD S-M12-CA-P1-100	Connection cable	Application: Oil and lubricant resistant Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR

Accessories

	Part no.	Designation	Article	Description
	50134943	KD S-M12-CW-P1-050	Connection cable	Application: Oil and lubricant resistant Connection 1: Connector, M12, Angled, Female, A-coded, 12 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	50139769	KD U-M12-CA-P1-020	Connection cable	Application: Oil and lubricant resistant Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR
	50139770	KD U-M12-CA-P1-050	Connection cable	Application: Oil and lubricant resistant Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
	50139771	KD U-M12-CA-P1-100	Connection cable	Application: Oil and lubricant resistant Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PUR

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50130284	KDS S-M12-CA-M12-CA-P1-020	Interconnection cable	Application: Oil and lubricant resistant Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 12 -pin Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR
	50130285	KDS S-M12-CA-M12-CA-P1-050	Interconnection cable	Application: Oil and lubricant resistant Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 12 -pin Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	50130286	KDS S-M12-CA-M12-CA-P1-100	Interconnection cable	Application: Oil and lubricant resistant Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 12 -pin Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR

Accessories

Connection technology - Connectors

	Part no.	Designation	Article	Description
	50132254	D M12A-12P	Connector	Connection: Connector, M12, Axial, Female, A-coded, 12 -pin

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