

Technical data sheet RFID read/write device

Part no.: 50150669

RDU 548i 01



For illustration purposes only

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display
- Notes
- Further information



Technical data

Basic data

Series	RDU 500
Working frequency, range	865 ... 868 MHz

Functions

Functions	Configurable operating modes
	LED indicator
	Reading gate control

Read data

Reading/writing range, max.	2,000 mm
Transponder, readable	EPC Gen2V2
	ISO/IEC 18000-63

Optical data

Electrical data

Performance data	
Memory access	Read/Write

Interface

Type	PROFINET
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Connection

Number of connections	3 Piece(s)
Connection 1	
Function	PWR
Type of connection	Connector
Thread size	M12
Connection 2	
Function	XF1 IN
Type of connection	Connector
Connection 3	
Function	XF2 OUT

Mechanical data

Design	Cubic
Dimension (W x H x L)	140 mm x 62 mm x 178 mm
Housing material	Metal
	Plastic
Net weight	600 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
Standards applied	Directive 2014/53/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
ETIM 5.0	EC001825
ETIM 6.0	EC002998
ETIM 7.0	EC002998
ETIM 8.0	EC002998
ETIM 9.0	EC002998
ETIM 10.0	EC002998

Electrical connection

Connection 2

Function	XF1 IN
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Connection 3

Function	XF2 OUT
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Operation and display

LED	Display	Meaning
1 SYS	Red, continuous light	Error / Initialization
	Green, continuous light	Operational readiness
	Off	No power supply / Hardware defective
2 ANT	Red, continuous light	Antenna defect
	Green, continuous light	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
3 ETH	Green, continuous light	Connection established
	Yellow, flashing	Data exchange active
	Yellow, flashing	No connection established / Hardware defective
4 ETH1	Green, continuous light	Connection established
	Yellow, flashing	Data exchange active
	Off	No connection established / Hardware defective
5 STS0: SF	Red, continuous light	PROFINET system error
	Red, flashing, 1 Hz	Signal service initiated via the bus
	Off	No PROFINET / System error / Hardware defective
6 STS1: BF	Red, continuous light	No PROFINET configuration / Low transmission speed / No PROFINET connection
	Red, flashing, 2 Hz	No PROFINET data exchange
	Off	No PROFINET / Bus error / 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.