

Technical data sheet

RFID read device

Part no.: 50040500

RFI 32 L 120

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Figure can vary



Technical data

Basic data

Series	RFI
Working frequency	0.125 MHz

Functions

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

Read data

Transponder, readable	EM4102
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Optical data

Reading distance	80 mm
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Electrical data

Performance data

Supply voltage U_B	12 ... 30 V, DC
Power consumption, max.	0.5 W
Memory access	Read only
Transmission speed	4,000 Bd

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
RS 232	
Function	Process
Transmission speed	9,600 Bd
Data format	Fixed
Start bit	1
Data bit	8 data bits
Stop bit	1 stop bit
Parity	None
Transmission protocol	<STX><data><CR><LF>

Connection

Number of connections	1 Piece(s)
Connection 1	
Function	Data interface
	Signal IN
	Signal OUT
	Voltage supply
Type of connection	Cable with socket connectors (10+6)
Cable length	1,000 mm

Mechanical data

Design	Cubic
Dimension (W x H x L)	76 mm x 30 mm x 102 mm
Housing material	Plastic
Net weight	385 g
Housing color	Black
Type of fastening	Through-hole mounting

Environmental data

Ambient temperature, operation	-25 ... 70 °C
Ambient temperature, storage	-40 ... 80 °C
Relative humidity (non-condensing)	5 ... 90 %

Certifications

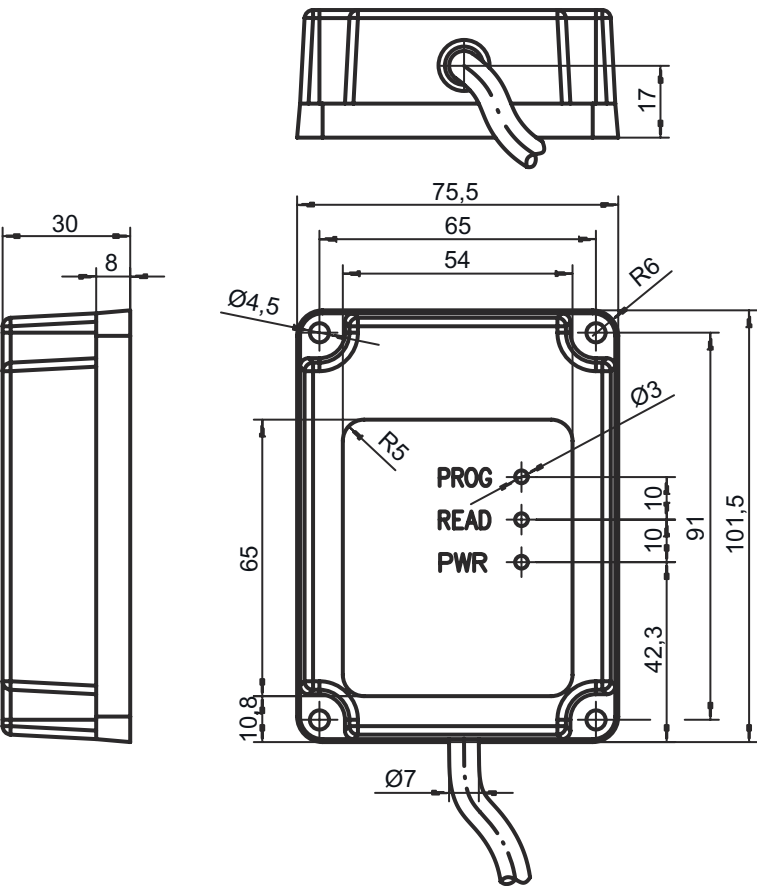
Degree of protection	IP 65
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Classification

Customs tariff number	84719000
eCl@ss 8.0	27280401
eCl@ss 9.0	27280401
ETIM 5.0	EC002998
ETIM 6.0	EC002998

Dimensioned drawings

All dimensions in millimeters



Electrical connection

Connection 1

Function	Data interface
	Signal IN
	Signal OUT
	Voltage supply
Type of connection	Cable with socket connectors (10+6)
Cable length	1,000 mm

Pin	Pin assignment	Conductor color
1	n.c.	White-brown
2	n.c.	White-red
3	n.c.	White-orange
4	n.c.	White-yellow
5	n.c.	White-green
6	SWOUT 1	White-black
7	GND	Brown
8	n.c.	Red
9	n.c.	Orange
10	RxD	Yellow

Electrical connection

Pin	Pin assignment	Conductor color
11	TXD	Green
12	n.c.	Blue
13	SWIN 1	Violet
14	VIN	Gray
15	GNDIN	White
16	Shield	Shield

Operation and display

LED	Display	Meaning
1	Yellow, continuous light	Operational readiness
2	Green, continuous light	Reading successful
3	Red, continuous light	Device error

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 unit

	Part no.	Designation	Article	Description
	50031256	MA 2	Connection unit	Interface: RS 232, RS 485 Connections: 3 Piece(s) Degree of protection: IP 54

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