BLUEBOX LF – Reader M30

iDTRONIC
PROFESSIONAL RFID

iDTRONIC's BLUEBOX Controller & Antenna family is well suited for industrial and enterprise applications, where reliable, robust and well performing products are needed. All components are designed as a powerful combination for an easy and cost efficient system installation.
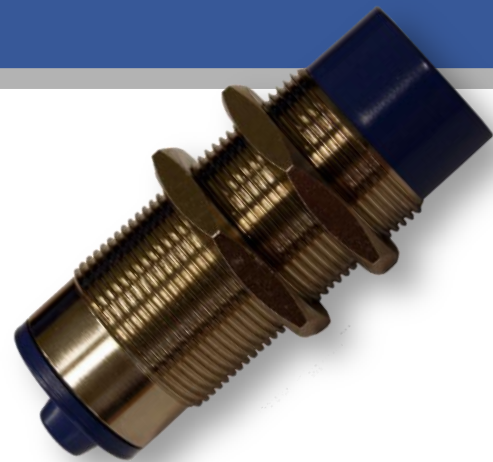
The BLUEBOX LF – Reader M30 is a Read/Write device with integrated antenna which can be easily installed into M30 windings. This powerful device can achieve a reading distance of up to 12 cm. The BLUEBOX LF – Reader Cylindrical M30 is an easy to use LF RFID Reader RS232 or RS485 interface. The up to date BLUEBOX SDK enables an easy start for ambitious developers.

Applications:

- **Industrial Automation**
- **Supply Chain**

Features

- 125 kHz Read-Only + Read/Write
- Supports ISO11784/11785, FDX-B
- Internal antenna
- Possibility of using different RFID standards parallel in one application
- Connection via RS232 or RS485
- 4 LEDs for status information
- Ruggedized product design and enclosure
- Unique SDK for all BLUEBOX products
- BLUEBOX SHOW applications software
- CE approved

Technical Data

Mechanical Specifications

Housing-Material:	Stainless steel, PC
Dimensions:	M30 × 78 mm
Weight:	200g
Protection Class:	IP65

Electrical Specifications

Power Supply:	24 VDC ± 10 %
Operating Frequencies:	125 kHz
Operating Distance:	Up to 12 cm
Connectors:	1 × M12 (Power & Interface)
Interfaces:	RS232 or RS485

Environmental Conditions

Operating Temperature:	-20 °C to +55 °C
Humidity:	5 % to 95 %

Features

Supported Transponders:	125 kHz Read-Only, 125 kHz Read/Write, ISO11784, ISO11785, FDX-B
Working Mode:	Scan Mode

Applicable Standards

Radio Regulation:	CE

Order Codes

RS232:	5224L	RS485:	5225L

BLUEBOX optional Accessories

Mounting and connection kits are available for all BLUEBOX Controllers and Antennas, which guarantee easy installation.

Power Supplies

Version	Order Coder
Office Power Supply (for office usage) - 110-240V to 24V / 12W (with 2 meter Cable & M12 Connector)	0951A
Office Power Supply (for office usage) - 110-240V to 24V / 20W (with 2 meter Cable & M12 Connector)	0952A
Industrial Power Supply (for control cabinet) - 110-240V to 24V / 15W (without cable)	0953A
Industrial Power Supply (for control cabinet) - 110-240V to 24V / 15W (without cable)	0954A
IP65 Industrial Power Supply (for outdoor usage) - 110-240V to 24V / 50W (with PG9 cable glands & without cable)	0954A

Interface Cables

Version	Order Coder
Ethernet interface cable 3 meter with M12 & RJ45 connector	0902A
USB interface cable 1 meter with M12 Mini USB & USB A connector	0909A
RS232 interface cable 3 meter with M12 & Sub-D9 connector	0903A
RS232 / RS485 interface cable 3 meter with M12 connector & open ends	0904A
Profibus interface cable 3 meter with M12 connectors	0908A

Antenna Cables

Version	Order Coder
Antenna cable 3 meter RG58/U & Ω50 with TNC-TNC connector	9903U
Antenna cable 3 meter RG58/U & Ω50 with TNC-TNC connector	9904U
Antenna adapter Ω50 TNC (Male) - SMA (Female)	0906U
Antenna adapter Ω50 TNC - TNC	0951U
Antenna terminator Ω50	0952U

Various Cables

Version	Order Coder
Power Supply cable 3 meter with M12 connector & open ends	0901A
I/O cable 3 meter with M12 connector & open ends	0905A

M12 Connectors

Version	Order Coder
Profibus M12 Y - connector	0907A
Profibus M12 T - connector	0956A
Profibus M12 terminator	0906A
Power Supply M12 connector	0910A
I/O M12 connector	0911A
Profibus M12 connector	0912A
Ethernet M12 connector	0913A
RS232 / RS485 M12 connector	0914A

Antenna Mountain Kits

Version	Order Coder
Antenna Mounting Kit for antenna 9124U, 9125U, 9126U & 9127U	9921U
Antenna Mounting Kit for antenna 9128U & 9129U	9922U
Antenna Mounting Kit for antenna 9130U & 9131U	9923U

The accessories are optional and not included by delivery