



LF-134-CAN

The master of networking
and connectivity



Key Features

- **Compact design**
- **Network-compatible***
- **Two housing versions**
- **Various connection options like:**
 - Sensors
 - Switches
 - LEDs
 - Display
- **Optionally available with adjustable RF power**

* only in conjunction with our CAN2WEB Advanced gateway

This RFID read/write device works in the lower frequency range (134.2 kHz). The integrated CAN bus interface enables simple networking between multiple devices.

LF-134-CAN readers developed by Fabmatics provide secure and quick identification of products and production batches. The device is able to read and write any conventional LF transponder. Two inputs and outputs allow sensors, switches, LEDs and even a display to be connected directly.

Every LF-CAN reader has a daisy chain CAN IN/OUT interface to facilitate the setup of a large, multiple reader linking CAN bus structure. To provide the host system with a standard protocol and interface, our CAN2WEB Advanced gateway handles all communication between host and readers connected to the CAN bus. This model is therefore also suitable above all for systems featuring multiple identification articles (e.g. in storage systems).

Technical data

Designation	LF-134-CAN-P	LF-134-CAN-M
Version	Network RFID reader with plastic case	Network RFID reader with metal case; particularly suitable for production environments with high electromagnetic interference
Dimensions	127 x 70 x 25 mm	130 x 80 x 30 mm (without base plate) 150 x 80 x 35 mm (with base plate)
Weight	150g	273 g (with base plate)
Case	ABS (Acrylonitrile Butadiene Styrene)	Housing: tin plate Base plate: POM (Polyoxymethylen)
Operating temperature	0°C to +50°C	
Storage temperature	-25°C to +50°C	
Voltage power supply (typical)	24 V/DC ±3 %	
Power consumption	Idle mode: 1.4 W (55 mA) Read mode: 5.1 W (210 mA) w/o anything connected accessories e.g. display	
Antenna	External ferrite or air-coil LF antenna: 48 µH ±3 % (see data sheet „Accessories“); Option “I” (plastic case) has built-in antenna only	
RFID frequency	134.2 kHz	
Readable transponder types	ISO 11784/785 HDX/FSK (e.g. RW, RO, SAMPT, MPT, Tiris RI-TRP-DR2B)	
MTBF	≥ 40,000 h	
MCBF	≥ 1,000,000 reading cycles	
Reading time one page	Average 110 msec	
Speed of CAN bus	Adjustable up to 1 MBit/sec, typical 100 kBit/sec	
Available CAN protocol	SDO	
Connectors	CAN In/Out (RJ45) CAN-Bus / power; Antenna (RJ10 - plastic case/Binder Series 712-3P - metal case) external antenna, n/a for opt. “I” (plastic case); Output A,B (RJ10) 2 digital channels out, ch.A is n/a for opt. “S” (plastic case); Input A,B (RJ10) 2 digital channels in; Display (RJ10) powered serial display link	

Options

Case	Product code	internal antenna	internal sensor
Plastic	RFID-RD-LF134-CAN-P-0-V4.0	○	○
	RFID-RD-LF134-CAN-P-0H-V4.0*	○	○
	RFID-RD-LF134-CAN-P-I-V4.0	●	○
	RFID-RD-LF134-CAN-P-S-V4.0	○	● top
	RFID-RD-LF134-CAN-P-IS-V4.0	●	● top
	RFID-RD-LF134-CAN-P-ISr-V4.0	●	● bottom
Metal	RFID-RD-LF134-CAN-M-V4.0**	○	○

* hat rail mounting

** only external antenna and sensor option

Accessories

Talk to our sales team for compatible antennas and accessories.

For detailed information please ask for the technical data sheet.



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