

RFID Proximity Reader with Ethernet Interface ID CPR50.10-E (13.56 MHz)



FEATURES

- Fast 10BASE-T/100BASE-TX Ethernet Interface
- Power over Ethernet
- Encrypted data transfer via Ethernet
- Operation modes „Polling Mode“ and „Notification Mode“
- Suitable for indoor- and outdoor use (IP54)
- Optional available: remote relay



RFID Proximity Reader ID CPR50.10-E

SHORT DESCRIPTION

Order description:

Proximity Reader Ethernet ID CPR50.10-E

The ID CPR50.10-E is designed as a wall-mounted device for applications like access control, time attendance and ticketing.

It supports transponders according to ISO14443-A & -B as well as ISO15693 and is able to communicate with NFC-devices.

Because of it's Ethernet interface according to 10BASE-T / 100BASE-TX standard the reader is well suited for easy integration into an existing LAN environment. The integrated Power over Ethernet (PoE) power supply provides for an easy and secure installation.

Operation mode „Notification-Mode“ reduces the necessary data traffic between Reader and Host to a minimum. Further data exchange with the transponder only starts if the host received a notification message from the reader in case of a detected transponder.

To protect the data transfer between reader and host an AES encryption standard (Rijndael-Algorithm) with 128 Bit key length can be configured.

If the reader shall be used to switch a relay or to monitor digital inputs, the I/O board ID CPR.I/O-A can be connected to the reader. The I/O board ID CPR.I/O-A can be placed in the secure interior of the building to protect the relay against sabotage from the outside.

Scope of delivery:

- Reader ID CPR50.10-E
- Surface spacer for surface mount installation
- Installation manual

Optional available:

- I/O board ID CPR.I/O-A

FEIG ELECTRONIC reserves the right to change specification without notice at any time.
Stand of information: March 2009.

TECHNICAL DATA

Dimensions	
Reader	84,2 x 84,2 x 22 mm (3.33x3.33x0.87 in)
Surface spacer	77,7 x 77,7 x 18 mm (3.07x3.07x0.71 in)
Housing	Plastic ASA, Front: acrylic glass
Color	Corpus: white / Front panel: black
Weight	approx. 150 g
Protection class	IP 54
Operating frequency	13.56 MHz
RF transmitting power	250 mW +/- 2 dB
Supply voltage	Power over Ethernet (PoE) IEEE802.3af (44 V bis 54 V DC)
Current consumption	max. 3,0 W
Supported transponders	ISO 14443-A ⁽¹⁾ , ISO 14443-B ⁽²⁾ , ISO 15693 ⁽³⁾ , NFC ⁽⁴⁾
Antenna	integrated, approx. 70 x 70 mm (2.77x2.77 in)
Interface	Ethernet 10BASE-T/100BASE-TX automatic MDI/MDI-X cross over correction. TCP/IP protocol
LEDs	Blue: power and TCP/IP socket connection Green + Red: controlled by host integrated
Beeper	
Relay	Connector for remote relay on optional I/O board ID CPR.I/O-A
Digital Inputs	Connectors for two digital inputs on optional I/O board ID CPR.I/O-A maximum 7 cm ⁽⁵⁾
Reading distance	
Temperature range	
Operation	-20 °C up to 70 °C
Storage	-40 °C up to 85 °C
Relative air humidity	95 % (non-condensing)
EEPROM	1 Million write cycles

¹⁾ e.g. mifare® classic (mini,1k,4k), mifare® UltraLight, mifare® DESfire, Smart MX, my-d® proximity, SLE44R35S, SLE55R..., etc.; Jewel™

²⁾ e.g. SLE66CL, ST19XR34, RF360 etc.

³⁾ e.g. I-CODE SLI, Tag-it HFI, my-vicinity, STM LRI512 etc.

⁴⁾ NFC Type 1, 2 and 4 in Read/Write and NFC card emulation mode

⁵⁾ Reading distances depend on the used transponders; here made statements relate on an inlet size of 76 x 45 mm (3.00 x 1.78 in)

STANDRAD CONFORMITY

Radio approval	
Europe	EN 300 330
USA	FCC 47 CFR Part 15
EMC	EN 300 489
Safety	
Low voltage	EN 60950
Human Exposure	EN 50364
Environment	RoHS-2002/95/EC WEEE-2002/96/EC