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

FEATURES

→ Wall Mount

→ Fast 10BASE-T/100BASE-TX Ethernet Interface

→ Power over Ethernet (PoE)

→ Encrypted Data transfer via Ethernet

→ Operating Modes "Polling Mode" and "Notification Mode"

→ Suitable for Inside and Outside Mounting (IP54)

→ Optional: external Relay

OBID® – RFID by FEIG ELECTRONIC

Description

The ID CPR50.10-E is a wall mountable reader for the following applications: Access Control, Time & Attendance, electronic Ticketing. It supports Transponders following the ISO Standards 14443-A & -B and ISO15693. The ID CPR50.10-E can also communicate with NFC-Devices.

Due to the Ethernet-Port in accordance 10BASE-T / 100BASE-TX an easy integration in existing LAN Networks is possible. Power Supply can be Power over Ethernet. This ensures a fast, economical and secure installation process.

The operating mode "Notification-Mode" reduces data traffic between the Reader and the Host to a minimum. The Host system needs only to initialize a data transfer if the Reader has reported a transponder.

The data transfer between Reader and Host can be secured with the AES Algorithm (Rijndael-Algorithm) with a 128 Bit Encryption Key.

With an optional I/O Card (ID CPR.I/O-A) one Relay and two digital Inputs are available. The ID CPR.I/O-A option can be mounted away from the reader in a secure area providing a more tamper-proof system.
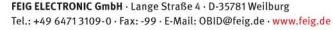
Scope of Delivery:
- Reader ID CPR50.10-E
- Mounting Adapter for Wall Surface Mounting
- Installation Manual

Options:

ID CPR.I/O-A: I/O-Module with one Relay and two Digital Inputs

Technical Data

Dimension	
Reader	84,2 x 84,2 x 22 mm / 3.31 x 3.31 x 0.87 inch
Mounting Adapter	77,7 x 77,7 x 18 mm / 3.06 x 3.06 x 0.71 inch
Housing	Plastic (ASA), Front: Acrylic Glass
Color	white & black (front)
Weight	approx. 150 g / 5.3 oz.
Protection Class	IP 54
Frequency	13.56 MHz
RF-Power	250 mW +/- 2 dB
Power Supply	Power over Ethernet (PoE), IEEE802.3af (44 V to 54 V DC)
Power Consumption	max. 3.0 W
Supported Transponder	ISO 14443-A[1], ISO 14443-B[2], ISO 15693[3], NFC[4]
Antenna	Internal, appr. 70 x 70 mm
Communication	Ethernet 10BASE-T/100BASE-TX, Automatic MDI/MDI-X Crossover-Correction TCP/IP-Protocol
LEDs	Blue: Power und TCP/IP-Link Green + Red: Host-controlled
Buzzer	Integrated
Inputs/Outputs	One Relay with optional I/O Card ID CPR.I/O-A Two digital Inputs with optional I/O Card ID CPR.I/O-A
Write- Read Distance	max. 7 cm / 2.75 inch[5]
Temperatures	
Operating	–20 °C to 70 °C
Storage	–40 °C to 85 °C
Relative Humidity	95 % (non-condensing)
EEPROM	1 Million Write cycles

[1] z.B. mifare® classic (mini,1k,4k), mifare® UltraLight, mifare® DESfire, Smart MX, my-d® proximity, SLE44R35S, SLE55R..., etc.; Jewel™
[2] z.B. SLE66CL, ST19XR34, RF360 etc.
[3] z.B. I-CODE SLI, Tag-it HFI, my-vicinity, STM LRI512 etc.
[4] NFC Type 1, 2 and 4 in NFC Card-Emulation-Mode
[5] Distance depends on type of transponder used; listed reading distance is for a Transponder Inlet of 76 x 45 mm

STANDARDS CONFORMITY

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