RFID Card Reader for IP-based Access Control Systems ID CPR50.10-E (13.56 MHz)

FEATURES

➔ Wall fastening

➔ 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 indoor and outdoor use (IP54)

➔ Optional: external Relay

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Description

The ID CPR50.10-E is a wall mountable card 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 card reader and the host to a minimum. The host system needs only to initialize a data transfer if the card reader has reported a transponder.

The data transfer between card 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 card reader in a secure area providing a more tamper-proof system.
The maximum power supply when using the ID CPR.I/O-A is 24V DC.

Scope of Delivery:
- Card reader ID CPR50.10-E
- Wall-mounted housing for surface mounting
- Installation manual

Options:

ID CPR.I/O-A: I/O-Module with one relay and two digital inputs

Technical Data

Dimension
  Card reader   84,2 x 84,2 x 22 mm / 3.31 x 3.31 x 0.87 inch
  Wall-mounted housing   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
                             Alternative: external power supply 24V up to 48V DC $\pm$ 10%
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

FEIG ELECTRONIC reserves the right to change specification without notice at any time.
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