

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



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 ± 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 |