Access control   Encrypted proximity reader

DIGIlock-PM/CR+

- Encrypted DESfire & MIFARE proximity reader
- Reading range up to 4cm
- Designer enclosure
- User configurable interface
- RS485 IBB interface
- 2 Digital Inputs
- 2 colour LED status indicator
- Integrated buzzer
- Coded relay with encryption

DIGIlock-PM/CR+   Encrypted Proximity Reader

DIGIlock-PM is an advanced encrypted DESFire & Mifare reader with authentification and encryption of data cards.

To use the reader without any controller and PC, a special offline mode can be used to permit access for 15000 cards into the readers EEPROM.

The outstanding design features a bottom part, which includes the reader electronic with pin connector to mount over a 62mm round DIN box with two 3mm screws. A cover part closes the reader after installation. The very slim upper edge prevents to the reader to get dirty.

A big and bright 2 colour LED signalling with green for access granted and red for no access. Blinking green shows that the door remained open, red blinking tells bad or illegal card. An additional buzzer warns if the door is still open after a while.

The ATS Mifare/DESFire reader works with an external IBB baud rate of 56kB and reader frequency of 13,56Mhz. A unique serial number enables the host configuration of a bus ID in the range between 1 and 120. As a standard Mifare set-up, only sector 3 (block 12) is used for reading distributor, company ID and card number data's, triple DES encryption. All other sectors could be used for other function or third party application. On special request the reader could also configured to read a different ATS encrypted sector. In DESFire mode the reader search for a special coded ATS DESFire record with 128Bit AES or 3DES encryption.

The antenna geometry is optimised to read ISO card format, but could also be used to read other tokens like key ring with a shorter reading distance. The reading distance of up to 4cm depends on surrounding and card quality. All standard DESFire, Mifare und Mifare-plus cards could be used after encoding with an encrypted ATS encoding station.

Up to 100 readers, to control up to 50 doors could be connected with a single cable to an FCxxx floor controller.

DIGIlock-CR+ is an intelligent door interface with one Relay for lock control, two monitored inputs for magnet contact, egress button or handle contact and a service input for reader authorisation. Installed on the save side of the door, it communicates after authorisation and encryption key exchange with the readers special coded relay interface.
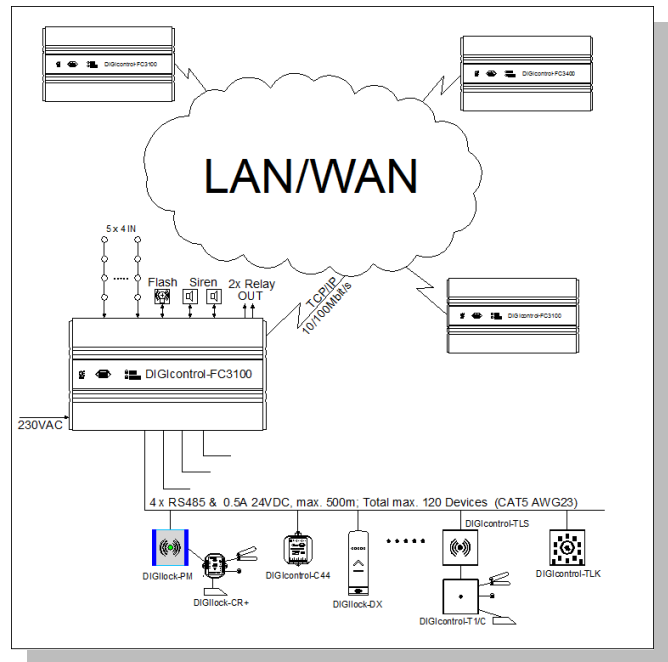
Technical Data

DIGIlock-PM:
CMOS microprocessor with encryption algorithm
5- 40mm reading distance
2 colour LED indicator for access right display
Integrated buzzer
1 RS485 interface to door controller
1 Coded relay interface
2 digital inputs
Temperature range: -10° to +50°C
Dimensions: W82 x H82 x D12 mm
Power: 10,5-24VDC / 45 mA max.

DIGIlock-CR+:
CMOS microprocessor with encryption reader interface
1x Relay output for lock control
2x monitored inputs for door monitoring, egress button, …
1x digital input for reader authorisation after installation
Dimensions: Ø60 x H 21mm (fits in DIN-switch box
Power: 10,5-24VDC / 30 mA max.
Temperature range: -10° to +50°C

Delivery Contents:
DIGIlock-PM (packs of 10) complete with installation and wiring instructions.
DIGIlock-CR+ (packs of 10) complete with installation and wiring instructions.

Variations:

DIGIlock-PM/B	As DIGIcontrol-PM but with black/silver colour
DIGIlock-PN	As DIGIcontrol-PM but with Mifare, DESFire & LEGIC-Advant read/write function