

Access control

Encrypted proximity reader



DIGIlock-PN

- High security RFID read/write unit
- Mifare, DESfire & LEGIC-Advant RFID
- 128Bit AES & 3DES encoding
- Reading range up to 4cm
- Designer enclosure
- RS485 IBB interface
- 2 monitored Inputs
- 3 colour LED status indicator
- Integrated buzzer
- Coded relay interface with authentication

DIGIlock-PN

DIGIlock-PN is a next generation encrypted DESFire, Mifare & LEGIC-Advant read/write unit with authentication and encryption of data cards.

Based on a ARM4 low power CPU, DIGIlock-PN is able to read and write all three different card types with 128 bit AES or 3DES encryption.

The outstanding design features a bottom part which includes the reader electronic with pin connector to mount over a 62mm round DIN box with 2 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 3 colour LED signalling with green for access granted, red for no access and blue writing update data to the card. 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/LEGIC 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 to 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 be configured to read a different ATS encrypted sector. In DESFire & LEGIC mode the reader search for a special coded ATS Desfire record with 128Bit AES or 3DES encryption.

The reader supports online update of offline access parameters and card valid timestamp renewal.

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 Mifare, Mifare-plus, DESFire EV1 & EV2 and LEGIC-Advant cards could be used after encoding with an **DIGIlock-WN** encoding station.

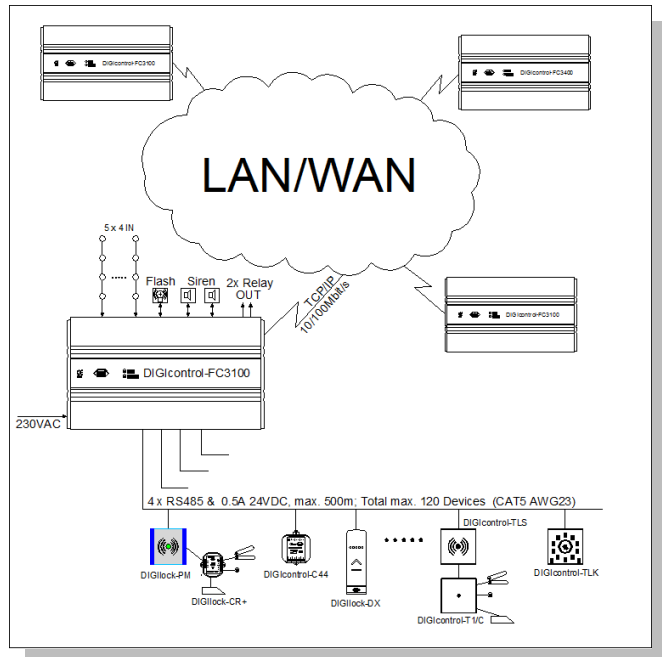
DIGIid-IHT encrypted MIFARE ISO-card

DIGIid-IDT encrypted DESFire ISO-card

Up to 100 readers, to control up to 50 doors could be connected with a single cable to an FC3xxx floor controller.

DIGIlock-CR+ is a intelligent door interface with one Relay for lock control, two monitored inputs for magnet contact, egress button or handle contact and an 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.

Encrypted Proximity Reader



Technical Data

DIGIlock-PN:

ARM4 low power CPU with encryption algorithm

5- 40mm reading distance

3 colour LED indicator for access right display

Integrated buzzer

1 RS485 interface to door controller

1 Coded relay interface

2 monitored 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-PN (packs of 10) complete with installation and wiring instructions.

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

Variations:

DIGIlock-PN/B As DIGIcontrol-PM but with black/silver colour

Information contained in this document is correct at time of publication (09-06-15) and subject to change without notice.

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