



EMI-Lock

Type IV MIFARE

No.: 925-468-00

For software version 5.8 or later
v. 2.1



Description

A completely new electronic handle by apra-optinet allows to increase the safety of server cupboards and IT equipment with full flexibility to meet customer needs.

The most important features

- Stand-alone handle equipped with its own RFID card memory,
- Support for up to 100 users/cards,
- Possibility of reconfiguration and expansion in the future without the need to replace the handle,
- Mechanically compatible with the most popular types of holes: 150x25 and 200x25mm,
- Possibility of using both 1-point and 3-point type closures,
- Insert for the standard key acting as an emergency opening,
- Opening system based on servo motor instead of an electromagnetic coil allows reduction of generated electromagnetic disturbance,
- Possibility of selection of the locking code configuration - individually, in groups, a master key.

Technical data

Power supply	12-24V, DC, typ. 12V DC
Power consumption	150mA
Electrical connectors	7-pin WE, 4-pin (RS485)
Built-in RFID reader	Yes, 13.56 MHz
Type of cards supported	MIFARE: ULTRALIGHT C, DESFIRE EV1, other compliant with ISO14443A
Card memory capacity	100 entries
Casing	Plastic
Permissible temperature range	from 0°C to 40°C
Permissible humidity range	from 10% to 90%, non-condensing
Dimensions	215x37.5x51mm
Weight	136g handle, 413g set
Casing colour	Black
Accessories	Electrical harness 5m, user manual, set of mounting brackets, stabilized power supply 12V / 12W, 1 RFID card
Certifications	CE, RoHS

Description of operation

Stand-alone handle equipped with its own RFID card memory. Authorization is performed without any parent system based solely on the numbers previously assigned to the system.

The handle is delivered from the factory in the active configuration mode, which must be performed before the first use. The procedure is described in the “Access card configuration” section.

The RFID reader module was placed inside the handle at the height of the LED, in the area marked in the figure below. To authorize with the card, bring the card close to marked place.

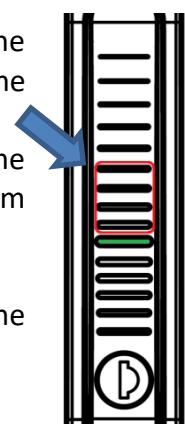
The handle has the mechanism protecting against repeated reading of the same card - between subsequent readings, the RFID card/tag should be removed from the reader's reach (about 5 cm) for at least 1 second.

If a similar card/tag was previously configured to open the lock, the mechanism will be unlocked, and then automatically closed after 10 seconds.








The handle status is signalled by the built-in LED in the following, default logic:

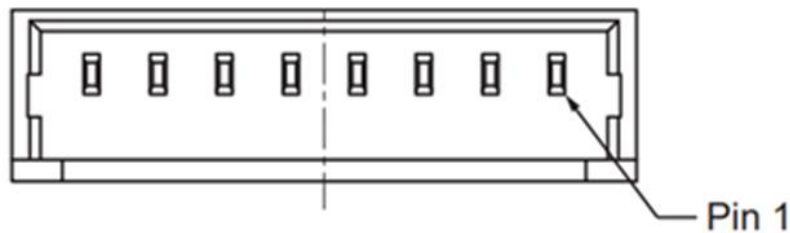
- **Green** - mechanism in the safe mode - closed
- **Red** - mechanism in the open mode
- Alternately flashing **green** / **red** - the active configuration mode

The LED signalling logic can be modified on production level or by using the *Management Display* module (925-489-00).



Description of connection

No.	Color		Signal	Comments
1	blue		Power supply	Permissible supply voltage is 12-24V DC
2	yellow		Control signal (opening)	Do not use / keep insulated
3	grey		Handle position sensor	Do not use / keep insulated
4	green		EMI Module Line 1	Do not use / keep insulated
5	pink		EMI Module Line 2	Do not use / keep insulated
6	white		EMI Module Line 3	Do not use / keep insulated
7	brown		Ground (GND)	



Access card configuration

The handle is delivered from the factory in the active configuration mode, which after connecting the device to the power supply is signalled by rapid alternating flashing of green and red LEDs. In this mode, the handle is waiting for one-time accustoming of the management card - the Master card.

As the Master card, you can use the one included in the package, or any other card operating in MIFARE standard.

This procedure allows, depending on the will of the user, the use of individual or one group Master card for all stand-alone handles.

To accustom the Master card, bring it closer to the reader located just above the LED indicator for about 1 second. The handle will remember the ID of the card as Master. It is not possible to reactivate the master card accustoming procedure in the future, so this card should be kept in a safe place!

The master card is not the card that opens the lock - it is only used to activate the mode of adding more user cards - Slave cards.

To add user cards (Slave cards):

1. Bring the previously configured Master card closer to the reader.
2. The handle will switch to the accustoming mode of the Slave card, signalling this by alternating flashing of the LED.
3. Within no more than 30 seconds, you must bring the user card you want to add closer for about 1 second.
4. The handle will remember the card, enabling the lock to be open with it.
5. To add more Slave cards, repeat the procedure described in steps 1-4.

Mechanical assembly variants

