

EMI-Lock

Type III LEGIC

No.: 925-478-00

For software version 5.6 or later
v. 1.0



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

- 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,
- Opening control through the EMI-One access control system or other,
- Integrated RFID reader operating in LEGIC standard,
- Built-in optical opening sensor for high reliability,
- Insert for the standard key acting as an emergency opening,
- Opening system based on servo motor instead of the 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) |
| Supported protocols | 1-Wire, Wiegand 26-bit*, Wiegand 34-bit* *Requires activation on factory level |
| Built-in RFID reader | Yes, 13.56 MHz |
| Type of cards supported | Legic: Prime (MIM-256, MIM-1024), Advant ATC (256-MV410, 1024-MV110, 1024-MV010, 2048-MP110, 4096-MP311, 4096-MP313, CTC: (4096-MP410, 4096-MM410) and other, compliant with: Legic RF, ISO15693, ISO14443A, ISO 14443B, INSIDE Secure, SONY FeliCa, ST SR |
| 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, 325g set |
| Casing colour | black |
| Accessories | electrical harness 5m, user manual, set of mounting brackets |
| Certifications | CE, RoHS |

Description of operation

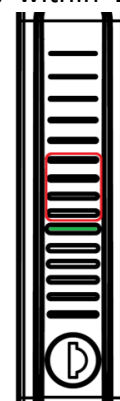
After connecting the device to the power supply, the device is ready for operation and automatically switches to the safe - closing mode. Unlocking the mechanism is activated by providing ground signal (GND) to the control line (yellow). Optionally, the logic levels can be changed to (5/12V) on demand. The minimum duration of the opening impulse is 100ms. If the control line is constantly connected with GND (or optionally 5/12V), the mechanism will remain open - this allows you to achieve the function of constantly open lock, e.g. in a range of hours. Disconnection of the control circuit automatically closes the handle within 10 seconds. The state of the lock is simultaneously represented by the change in the state on the Open Collector type position sensor line (grey wire) as follows:

- Open circuit - open handle
- Closed circuit (short to GND) - closed handle

The handle status is signaled by the built-in LED. The default indication logic has been described below :

- **Green** - mechanism in the safe mode - closed
- **Red** - mechanism in the open mode
- *Alternately flashing **green/red** - alarm condition (EMI-One control module - if connected)

It is possible to change the LED indication logic at factory configuration level. 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 a card, connect to the EMI-One master module, and then bring the card closer to marked place. The handle has a protection mechanism against repeated reading

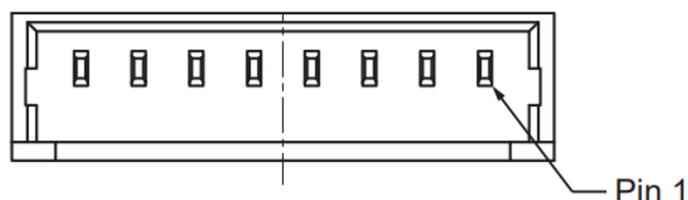


of the same card - between subsequent readings, the RFID card/tag should be removed from the reader's reach (about 5 cm) for at least 1 second.

Description of connection

| No. | Color | | Signal | Comments |
|-----|--------|--|--------------------------|--|
| 1 | blue | | Power supply | Permissible supply voltage is 12-24V DC |
| 2 | yellow | | Control signal (opening) | Contact with the GND or optionally (5/12V) activates the opening |
| 3 | grey | | Handle position sensor | Open Collector output |
| 4 | green | | EMI Module Line 1 \ D0* | * Open Collector output |
| 5 | pink | | EMI Module Line 2 \ D1* | * Open Collector output |
| 6 | white | | EMI Module Line 3 | Connect only with the EMI-One SE / EMI-Pro module! |
| 7 | brown | | Ground (GND) | Permissible supply voltage is 12-24V DC |

CONNECTOR DESCRIPTION - HANDLE



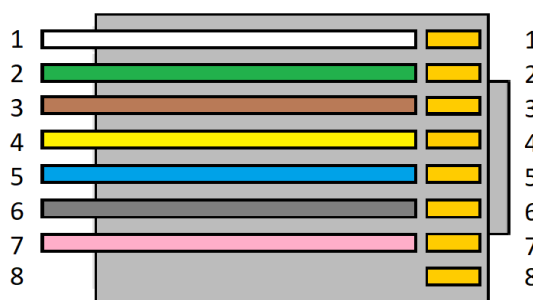
The maximum allowable voltage on terminals 4-6 is 5V, terminals 2-3 – 12V. Over-voltage will result in damage to the control module!

Maximum allowed current on Handle position (pin no.3) is 100mA.

CONNECTOR DESCRIPTION

| No. | Color | | Signal | Comments |
|-----|--------|--|--------------------------|--|
| 1 | white | | EMI Module Line 3 | Connect only with the EMI-One SE / EMI-Pro module! |
| 2 | green | | EMI Module Line 1 / D0* | Input / * Open Collector output |
| 3 | brown | | Ground (GND) | |
| 4 | yellow | | Control signal (opening) | Contact with the GND or optionally (5/12V) activates the opening |
| 5 | blue | | Power supply | Permissible supply voltage is 12-24V DC |
| 6 | grey | | Handle position sensor | Open Collector output |
| 7 | pink | | EMI Module Line 2 / D1* | Input / * Open Collector output |
| 8 | ---- | | ----- | ----- |

EMI-One SE / EMI-Pro



*Custom (special) variants only. For further information, please contact us at the following address: service@apra-optinet.pl

Mechanical assembly variants

