

LLC Pulsar-Telecom

195009, Russia, Saint-Petersburg, Bobruiskaya str.,7
Tel.: (812) 703-77-65, 542-04-80
Fax: (812) 542-11-85

105122, Russia, Moscow, Schelkovskoye Highway, 2,
office 225
Tel./fax: (495) 580-37-61, 78-77-066

www.ironlogic.ru

 Certificate GOST R No POCC RU.ME83.B00374

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MATRIX-III EH

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Proximity card reader

GENERAL

Reader Matrix-III EH is designed for access control as a reader for proximity cards of EM-Marine and HID standard and transformation of the read card code into the code Dallas Touch Memory and Wiegand 26.

CHARACTERISTICS

Identification cards: cards of Dallas Touch memory and HID standard
Autodetection of card standard without additional settings
Distance of cards/keyfobs reading: 6-14 cm
Output protocol: Dallas Touch Memory and Wiegand 26
Remoteness of reader from controller in mode Dallas Touch Memory, up to 15 m
Remoteness of reader from controller in mode Wiegand, up to 100 m
Confirmation of card reading: buzzer signal, two-color light-emitting diode
Indication: internal and external
Current voltage: 8-18 V DC
Current consumption in card standby mode, not exceeding: 35 mA
Operating temperature: from -40°C to +50°C
Relative humidity, not exceeding: 95%
Dimensions: 115x45x22

DELIVERY SET

- Reader MATRIX III EH 1pc.
- Screw 1pc.
- Cap screw 3,5x40 2 pc.
- Dowel pin 2 pcs.
- Operation instructions 1 pc.

WARRANTY

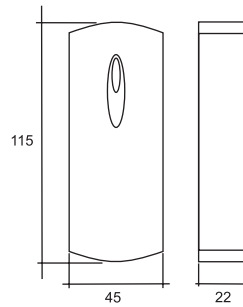
Warranty period is lifetime.
Reasons for warranty termination:
- violation of these Instructions and maintenance requirements;
- mechanical damages;
- use of aggressive agents;
- unauthorized intervention into the controller scheme.
During the warranty period the Manufacturer repairs reader failures free of charge which appeared due to the fault of Manufacturer or replaces faulty components and blocks. Repair is performed in the Manufacturer workshop.

INSTALLATION AND CONNECTION

Install the reader at flat surface in a place providing free swipe of PROXIMITY cards.

To install reader MATRIX-III EH proceed as follows:

1. Mark and drill holes in accordance with holes of the reader.
2. Connect reader wires in accordance with diagram.
3. Install the reader and secure it with screws.
4. Install decorative cover and secure it with screw.



OPERATION OF READER

Operation of reader without external indication management (internal indication):

1. Always, when there is no card in the reader field, red diode is on.
2. At the moment of swipe red diode if off, green diode turns on and the reader gives a short sound signal.
3. No color indication when there is no card in the reader field.

External management with red, green light-emitting diodes and sound is performed by bridging to general contact. External indication may operate together with internal indication, i.e. external indication excludes only the channel meant for external management.

CONNECTION DIAGRAM

| Wire color | Connection of Wiegard 26 | Connection of Dallas Touch memory (emulation) | Connection of Dallas Touch memory (one-time transmittance) |
|------------|--|---|--|
| Red | +12V | +12V | +12V |
| Black | General (minus) DATA 1 DATA 0 | General (minus) TM (central) | General(minus) TM (central) |
| Brown | | | |
| White | | | |
| Green | LED-G (external management of green diode) | | |
| Yellow | LED-R (external management of red diode) | | |
| Blue | BEEP (external management of sound) | | |

| Wire color | Purpose |
|------------|--|
| Red | Power supply +12V |
| Black | General (minus) |
| Brown | Output DATA 0 |
| White | Output DATA 1 |
| Green | LED-G (external management of green diode) |
| Yellow | LED-R (external management of red diode) |
| Blue | BEEP (external management of sound) |