

- ☐ Proxy-3A  
☐ Proxy-3M  
☐ Proxy-3MA

# PROXIMITY CARD READERS

## Proxy-3A, Proxy-3M, Proxy-3MA

ИСО 9001



### DATA SHEET

## 1 GENERAL

1.1 Proxy-3A, Proxy-3M, Proxy-3MA Proximity Card Readers (hereinafter referred to as the readers) are to be used in intrusion alarm systems and access control systems. The readers are designed to read the codes of credentials sending them to control and indicating equipment or access controllers which support any of the following input data formats:

- Touch Memory + RS-232 TTL (5 bytes + CRC);
- RS-232/DATA + PWM/STROBE (5 bytes);
- RS-232/DATA + PWM/STROBE (5 bytes + CRC);
- Wiegand-26, Wiegand-37, Wiegand-44;
- ABA TRACK II (10 decimal digits);
- ABA TRACK II (13 decimal digits).

1.2 The readers are intended for round-the-clock operation.

1.3 The readers are related to irreparable and regularly maintained products.

## 2 SPECIFICATIONS

| No.  | Parameter                                                                                                                                                                        | Value                                                              |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 2.1  | Supply Voltage                                                                                                                                                                   | - 8 to 15 V                                                        |
| 2.2  | Max Consumed Current <ul style="list-style-type: none"> <li>• Proxy-3A</li> <li>• Proxy-3M</li> <li>• Proxy-3MA</li> </ul>                                                       | - 120 mA<br>- 180 mA<br>- 200 mA                                   |
| 2.3  | Read Range <ul style="list-style-type: none"> <li>• Proxy-3A</li> <li>• Proxy-3M</li> <li>• Proxy-3MA:</li> </ul> <div style="text-align: right;">Em-Marin, HID<br/>MIFARE</div> | - up to 12 cm<br>- up to 6 cm<br><br>- up to 12 cm<br>- up to 6 cm |
| 2.4  | Operating Temperature                                                                                                                                                            | - minus 25 to +60°C                                                |
| 2.5  | Relative Humidity                                                                                                                                                                | - 95%                                                              |
| 2.6  | Ingress Protection Rating (GOST 14254-96)                                                                                                                                        | - IP20                                                             |
| 2.7  | Weight                                                                                                                                                                           | - 0.2 kg max                                                       |
| 2.8  | Overall Dimensions                                                                                                                                                               | - 143 mm × 71 mm × 25 mm                                           |
| 2.9  | Continuous Work Time                                                                                                                                                             | - 24/7                                                             |
| 2.10 | MTBF in quiescent mode                                                                                                                                                           | - min 80,000 hours                                                 |
| 2.11 | Non-failure Operation Probability                                                                                                                                                | - 0.98758                                                          |
| 2.12 | Average Lifetime                                                                                                                                                                 | - 8 years                                                          |

## 3 STANDARD DELIVERY

| Item                                                 | Q-ty, pcs. |
|------------------------------------------------------|------------|
| Proxy-3A (Proxy-3M, Proxy-3MA) Proximity Card Reader | 1          |
| Data Sheet                                           | 1          |
| Detachable terminal blocks                           | 2          |
| Woodscrews with wall plugs                           | 2          |
| Packing                                              | 1          |

## 4 DESIGN, MOUNTING, AND WIRING

The description of the reader design and the procedures of mounting and wiring are discussed in Proxy-3A / Proxy-3M / Proxy-3MA User's Manual which can be found at the site of the Bolid Company [bolid.ru](http://bolid.ru) in the section PRODUCTS on the pages of the readers: [https://bolid.ru/files/373/566/proxy\\_3a\\_3m\\_3ma\\_um\\_ed0\\_e.pdf](https://bolid.ru/files/373/566/proxy_3a_3m_3ma_um_ed0_e.pdf).

## 5 OPERATION

The readers and their operation are described in Proxy-3A / Proxy-3M / Proxy-3MA User's Manual which can be found at the site of the Bolid Company [bolid.ru](http://bolid.ru) in the section PRODUCTS on the pages of the readers: [https://bolid.ru/files/373/566/proxy\\_3a\\_3m\\_3ma\\_um\\_ed0\\_e.pdf](https://bolid.ru/files/373/566/proxy_3a_3m_3ma_um_ed0_e.pdf).

## 6 TESTING

The reader having been powered on, it shall beep three times in various tones while light indicators at both sides of the reader shall turn on one-by-one in the following order: blue, red, and green; then blue indicators shall illuminate (if no external indication control is performed).

Present an ID card to the reader. After reading the code of the card the reader beeps once. Further performance of the LEDs and the reader's beeper depends on how the controller responds to the presented card.

## 7 MAINTENANCE AND REPAIR

7.1 Maintenance works shall be carried out at least annually by electricians qualified for Electrical Safety of Class III or higher.

7.2 The reader is serviced according to a scheduled-preventive system which provides annual maintenance. The maintenance shall include the following:

- Checking the exterior conditions of the reader;
- Testing functionality of the reader according to Section 6 of this Manual;
- Inspection for secure mounting of the reader and good conditions of wires and terminal tightening.

**WARNING:**

**The manufacturer does not accept any claims without an incident/malfunction report.**

7.3 A reader's failure being a result of consumer's not observing mounting or operation rules is not a reason for claims and warranty repair.

**WARNING!**

**Do not try to remove the reader's PCB, this automatically annuls the warranty.**

7.4 Claims shall be submitted to the following address:

NVP BOLID CJSC, #4 Pionerskaya Str., Korolyov, Moscow Region, Russia, 141070.

Tel./fax: +7 (495) 775-71-55 (PBX). E-mail: [info@bolid.ru](mailto:info@bolid.ru)

7.5 In case of any issue related to use of the product, please contact with the technical support: +7 (495) 775-71-55 or e-mail: [support@bolid.ru](mailto:support@bolid.ru).

## **8 TRANSPORTATION, STORAGE, RECYCLING**

8.1 The readers packed for transportation can be stored in unheated warehouses at ambient temperature from minus 50°C to + 50°C and relative humidity up to 95% at +35°C.

8.2 The readers in consumer packaging shall be stored in heated warehouses at ambient temperature from +5°C to +40°C and relative humidity up to 80% at +20°C.

8.3 The reader is to be recycled taking into account that there are no toxic components in it.

8.4 Precious material content: not subject to inventory accounting in case of storage, disposal and recycling (Clause 1.2 of Russian Standard GOST 2.608-78).

## **9 MANUFACTURER WARRANTY**

9.1 The manufacturer guarantees that the product meets technical requirements specified in the manuals if the user follows the instructions for shipment, storage, installation, and usage.

9.2 Warranty period is 18 months but no more than 24 months from the manufacturer's date of issue.

## **10 CERTIFICATION**

10.1 Proxy-3A, Proxy-3M, Proxy-3MA Proximity Card Readers meet the requirements of Technical Regulations of Custom Union TR CU 020/2011. This is approved by Conformity Certificate № RU C-RU.ME61.B.01610.

10.2 Production of proximity card readers Proxy-3A, Proxy-3M, Proxy-3MA is certified according to GOST ISO 9001-2011 by a conformity certificate No. POCC RU.IK32.K00153.

## **11 INFORMATION ABOUT ACCEPTANCE, PACKAGING, AND MARKING**

11.1 The Proxy-3A (Proxy-3M, Proxy-3MA) proximity card reader, Serial No. \_\_\_\_\_, is manufactured and accepted in accordance with mandatory requirements of state standards and actual technical documentation, qualified as proper for operation and packaged by CJSC NVP "Bolid".

11.2 The marking of the reader shall correspond to the design documentation package and Russian Standard GOST 26828-86.

11.3 The following information is specified on the plate located on the reader rear side:

- 1) Logo or manufacturer name;
- 2) Name or code of the reader;
- 3) Factory number;
- 4) Two last digits of the year and the quarter the reader was made;
- 5) Conformity mark.

11.4 On the front side of the controller case there are letterings near the relevant LEDs specifying their purposes.

11.5 The marking of the transport packaging corresponds to Russian Standard GOST 14192-77 and includes the handling marks N1 ("Fragile"), N3 ("Keep dry"), N11 ("Top"), base, additional, and information letterings.

Responsible for acceptance and packaging

QCD \_\_\_\_\_  
Full Name

\_\_\_\_\_  
Date, Month, Year