

Proxy-5AG, Proxy-5AB

PROXIMITY READERS

- Proxy-5AG
- Proxy-5AB

INSTRUCTION MANUAL

ICO 9001 

1 TECHNICAL DATA

1.1 General

1.1.1 Proxy-5AG and Proxy-5AB Proximity Card Readers (hereinafter referred to as the readers) for surface mounting 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 the Dallas Touch Memory input data format. The readers communicate with credentials of EM-Marin standard. Operating under S2000-4 units or S2000-2 access controllers the readers provide the Arming Request function by means of touch sensitive buttons on the readers' front panels and indicate by their LEDs conditions of the protected premises.

Proxy-5AG and Proxy-5AB differ by their color: a Proxy-5AG reader is grey while a Proxy-5AB reader is black.

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

1.2 Specifications

- 1.2.1 Supply voltage – 7 to 25 V
- 1.2.2 Max consumed current – 60 mA
- 1.2.3 Transmit frequency – 125 kHz
- 1.2.4 Max read range – 100 mm (MAX)
- 1.2.5 Antenna – Built-in
- 1.2.6 Interface – 1-Wire (Touch Memory).
- 1.2.7 Overall dimensions – 43 mm × 83 mm × 14 mm
- 1.2.8 Operation temperatures – Minus 20 to +50°C
- 1.2.9 Ingress protection rating – IP20

1.2.10 The content of precious materials: no need to account for the storage, disposal and recycling.

1.3 Standard Delivery

- 1) Proxy-5AG (Proxy-5AB) Proximity Card Reader – 1 pc.
- 2) Instruction manual – 1 pc.
- 3) Woodscrews and wall plugs – 2×2 pcs.
- 4) Package – 1 pc.

2 OPERATIONAL DIRECTIVES

2.1 Preparation for Use

2.1.1 The front panel of the reader is equipped with a two-color LED and a touch sensitive button. A four-conductor cable is brought-out to connect external circuits to the reader.

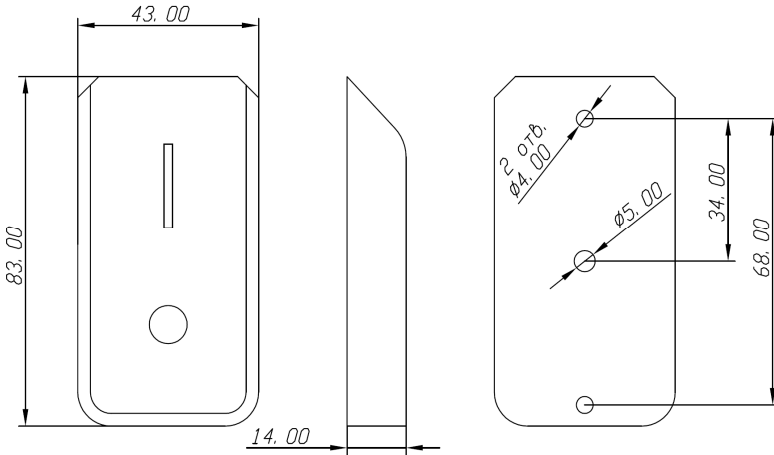


Figure 1

2.1.2 The Arming Request touch sensitive button located on the front panel of the reader (under the LED, marked by a circle) is designed to switch an S2000-2 or S2000-4 to the Ready to Arm / Disarm mode in case of operating partitions by combined cards (cards programmed both to arm / disarm partitions and to get access).

2.1.3 To switch the S2000-2 or S2000-4 to the Ready to Arm / Disarm mode, touch the button for 1 s and longer until the reader LED starts pulsing with red and green alternately. After that within 20 s the combined card is considered by the device as a card for arming / disarming. The Ready to Arm / Disarm mode is in effect only for a single touch and terminates either after presenting the card to the reader, or after the expiry of 20 s, or after the second press on the Arming Request button.

2.2 Connection Diagram

2.2.1 Figure 2 shows examples of connecting the readers to control and indicating units and access controllers manufactured by the Bolid Company.

Table 1 Contacts

Wire Color	Circuit	Function
Brown (B)	+U	Supply voltage
White (W)	GND	0 V
Green (G)	D0	1-Wire interface (Touch Memory)
Yellow (Y)	LEDR	LED input (red)

Examples of connecting the readers to control units and access controllers manufactured by the Bolid Company (the readers are at the left for all the examples):

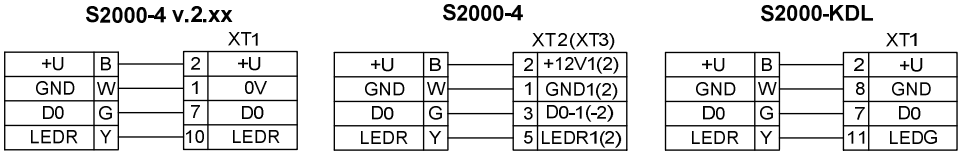


Figure 2

The reader is compatible with control units and access controllers which support the Dallas Touch Memory interface. The reader emulates Dallas Touch Memory (DS1990A, continuous transmission of the code of when a card is held).

The indicator is controlled using direct polarity (active “1”). If a low logic level is applied to LEDR then the indicator illuminates with green; if, otherwise, a high logic level is applied then the indicator illuminates with red.

To get more information about wiring the readers please refer to manuals for specific control and indicating units or access controllers.

2.3 Mounting

2.3.1 Prior to mounting the reader remove the front panel unscrewing the screw in the bottom part of the reader.

2.3.2 To secure a reader to a wall drill two mounting holes for screws and a hole to pass wires through it as shown in Figure 1. Please take into account that read range distance is reduced when exposed to electromagnetic interference or mounted on a metal surface.

2.3.3 After mounting place the front panel back on the reader.

WARNING: To avoid incorrect operation of the reader apply power to the reader when its front panel has already been put on the place. A beeper located at the rear side of the front panel is simultaneously used as a sensitive pad for the touch sensitive button. And each time after being powered up the reader calibrates the button. If the front panel is put on place after applying power to the reader then the button will operate incorrectly.

2.4 Testing Operability of the Reader

2.4.1 When the access controller or fire and alarm control unit is being powered up, the reader LED shall illuminate with red for a short time and then illuminate with green (for low logic level in the LEDR line). The beeper shall sound three times.

2.4.2 Present an ID card to the reader. After reading the code of the card the reader shall issue a beep sound. The further performance of the LED depends on how the controller responds to the presented card.

3 MAINTENANCE

Maintenance of the reader should be carried out by electricians with third and higher electrical safety qualification levels.

Maintenance works shall include:

- Ensuring the reader casing is not damaged and wire terminals are fastened properly;

- Removing dust, debris, and corrosion from the contact connections and the casing of the reader;
 - Testing operability of the reader as discussed in Clause 2.4 of this manual.
- Maintenance of the reader should be carried out once per year.

4 CERTIFICATES

4.1 Proxy-5AG and Proxy-5AB Proximity Card Readers meet the requirements of Technical Reglament of Custom Union TR CU 020/2011. This is approved by Conformity Certificate No. RU C-RU.ME61.B.00931.

4.2 Production of proximity card readers Proxy-5AG and Proxy-5AB is certified according to ГОСТ ISO 9001-2011 by a conformity certificate No.ПOCC RU.ИК32.К00153.



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