PROXIMITY CARD READER

S2000-Proxy

ИСО 9001

INSTRUCTION MANUAL

1 TECHNICAL DATA

1.1 General

1.1.1 S2000-Proxy Proximity Card Reader (hereinafter referred to as the reader) is to be used in access control systems and is designed to read codes of ID cards in co-operation with devices with such input data format as Dallas Touch Memory. When operating with an S2000-4 fire & intrusion alarm and access control panel or an S2000-2 access controller, the reader provides operation of Request-to-Arm/Disarm function with the help of a micro switch on the reader's front surface under the label. Also the reader indicates conditions of protected premises by means of its READY light indicator.

1.1.2 The reader is intended for round-the-clock operation.

1.2 Specifications

1) Power Supply Voltage - 10 V to 15 V
2) Consumed Current - 80 mA max
3) Read Range - 7 cm max
4) Operating Temperatures - Minus 20°C to +50°C
5) Ingress Protection Rating - IP20
6) Overall Dimensions - 123 mm × 97 mm × 8 mm
7) Ripple Voltage - 200 mV max

1.3 Standard Delivery

A standard delivery of the reader comprises:

– S2000-Proxy Card Reader - 1 pc.;
– Instruction Manual - 1 pc.;
– Label - 1 pc.;
– Pluggable Terminal Block - 1 pc.;
– Slotted Countersunk Flat Head Woodscrew - 4 pcs.;
– Package - 1 pc.
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2 OPERATIONAL INSTRUCTIONS

2.1 Connection Diagram

2.1.1 The reader is supplied with a pluggable terminal block to which wires are connected. When mounting, marking «1» on the pluggable terminal block must be aligned with the marking «1» of the contact on the reader board as shown in Figure 1. Figure 2 shows a typical diagram for connecting the reader with such fire and alarm panels as S2000-4, Signal-VK-4 rev.05, and Signal-VK6.

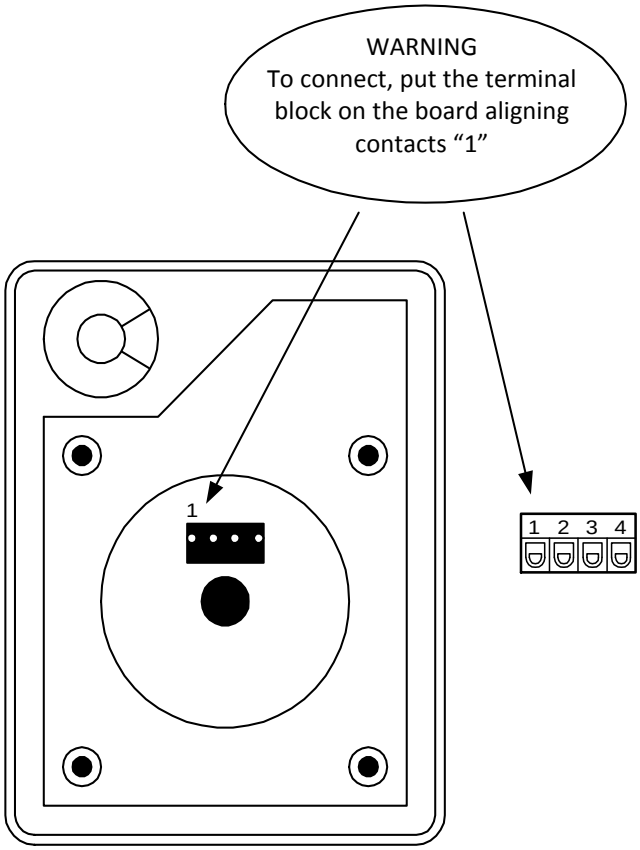

Figure 1

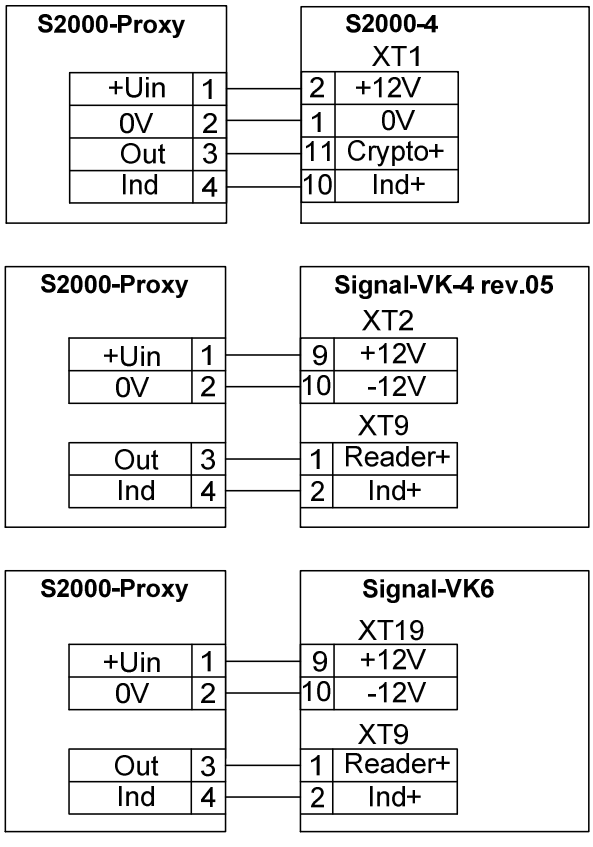

Figure 2

2.1.2 The built-in Request-to-Arm button located on front of the reader under the label is designed to switch the connected S2000-2 controller or S2000-4 panel to *Ready to Arm/Disarm* mode if partitions are operated by means of combined cards (cards programmed both to arm / disarm partitions and to request access).

2.1.3 To switch the S2000-2 or S2000-4 to the Ready to Arm/Disarm mode, hold the button pushed for more than 1 s, until READY LED of the reader starts flashing rapidly. After that, within 20 s a combined card will be considered by the device as a card for arming/disarming. The Ready to Arm/Disarm mode is active only for one presenting of a card and is terminated after presenting the card to the reader, or on 20 s having elapsed, or after repeated press on the Request-to-Arm button.

2.2 Mounting

2.2.1 Figure 3 shows the drilling pattern to attach the reader to a wall.

2.2.2 If the reader is to be attached to a metal surface, a non-metal pad of at least 2 cm thickness must be laid between the reader and the surface.

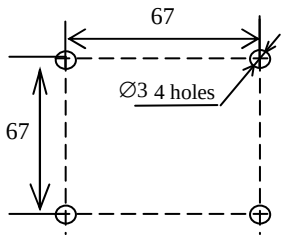

Figure 3

2.3 Testing

2.3.1 While powering up the control device, the reader shall emit four short beeps and its POWER LED shall show green light.

2.3.2 Present an ID card to the reader. After reading the code of the card the reader emits a short beep.

2.3.3 This test is to be performed if the reader is connected to an S2000-4 fire & intrusion alarm and access control panel. To switch the panel to Ready to Arm/Disarm mode, push the Request-to-Arm button which is under the READY indicator, under the label and hold it pressed. Within 3 s the READY LED shall flash rapidly. After that, within 30 s the card will be considered by the panel as the credential for arming / disarming.

WARNING

1) **Confusing the wires when mounting as well as improper mounting of the pluggable terminal block can result in a failure of the reader.**
2) **Do not try to disassemble the reader by yourself. Opening the reader automatically cancels the warranty.**
3) To provide **reliable** operation of the reader, it is necessary:
   а) To provide placing the reader at a distance at least 0.5 m from another reader (if it exists) and no more than 1 m from the electromagnetic lock;
   б) Remember that the power supply voltage range for the reader is 10 V to 15 V;
   в) The reader and the devices the reader is connected to (for example, an S2000-4 or S2000-2) should be powered by the same 12 V dc power supply.

Notes:

1) If a magnet lock is connected to the same power supply, the lock should be wired by an individual wire; you are strongly recommended to supply power to electromagnetic locks from a separate power supply;
2) If the magnetic lock is not equipped with a circuit debouncing high-voltage pulses occurred while switching power, a diode in reverse switching should be brought in parallel with the electrical winding of the lock (the forward current of the diode must be at least 1 A).

ZAO NVP Bolid, 4 Pionerskaya Str., Korolev 141070, Moscow Region, Russia
Phone/fax: +7 495 775-7155
Email: info@bolid.ru
Technical Support: support@bolid.ru
http://bolid.ru