

# PROXIMITY CARD READER

## S2000-Proxy N



ИСО 9001

### INSTRUCTION MANUAL

## 1 TECHNICAL DATA

### 1.1 General

1.1.1 S2000-Proxy Proximity Card Reader (hereinafter referred to as the reader), of surface-mounting type, is to be used in intrusion alarm systems and access control systems in order to read codes of ID cards and to transmit them to control panels and access controllers which support Dallas Touch Memory input data format. While cooperating with the connected S2000-4 control panel or S2000-2 access controller, the reader provides Request-to-Arm function with the help of the micro switch on the front of the reader. Also the reader indicates conditions of the protected premises by means of READY LEAD.

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

### 1.2 Specifications

|                                 |                         |
|---------------------------------|-------------------------|
| 1.2.1 Input Voltage             | – 7 V to 25 V           |
| 1.2.2 Max Consumed Current      | – 60 mA                 |
| 1.2.3 Operating Frequency       | – 125 KHz               |
| 1.2.4 Baud Rate                 | – RF/64 (1953 b/s)      |
| 1.2.5 Max Read Range            | – 90 mm                 |
| 1.2.6 Antenna                   | – Internal              |
| 1.2.7 Interface                 | – 1-Wire (Touch Memory) |
| 1.2.8 Ingress Protection Rating | – IP20                  |
| 1.2.9 Overall Dimensions        | – 82 mm × 82 mm × 22 mm |
| 1.2.10 Operating Temperatures   | – Minus 20°C to +50°C   |

### 1.3 Parts List

|                                                           |          |
|-----------------------------------------------------------|----------|
| 1) S2000-Proxy N Reader                                   | – 1 pc.  |
| 2) This Instruction Manual                                | – 1 copy |
| 3) Label                                                  | – 1 pc.  |
| 4) Pluggable Terminal Block                               | – 2 pcs. |
| 5) Slotted Countersunk Flat Head Woodscrew with Wall Plug | – 2 pcs. |
| 6) Package                                                | – 1pc.   |

2 OPERATIONAL INSTRUCTIONS

2.1 Preparing for Use

2.1.1 The reader is equipped with four terminals to connect external circuits, two light indicators, and a push button.

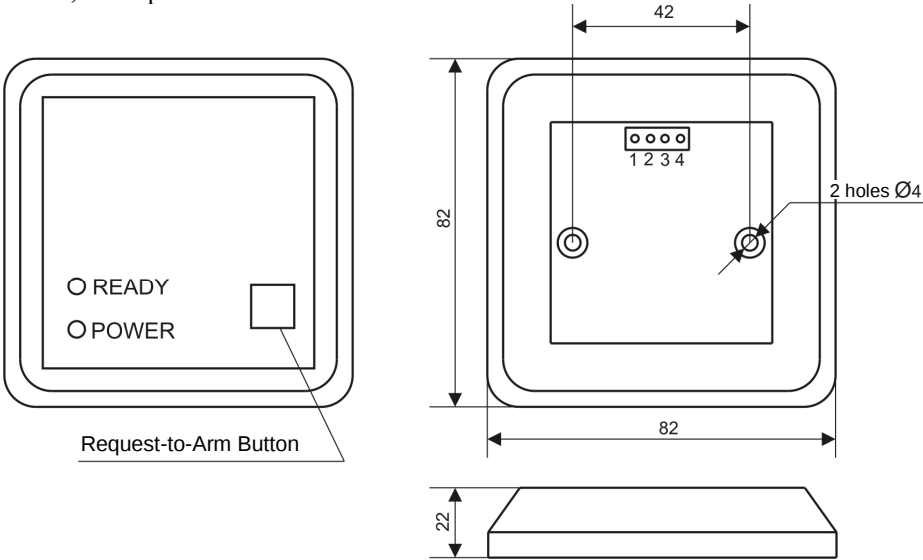


Figure 1

2.1.2 The Request-to-Arm button located on the front surface of the reader is designed to switch the connected 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 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 Connection Diagram

2.2.1 Figure 2 shows diagrams of connection of the S2000-Proxy N with Bolid manufactured CIE and access controllers.

Table 1 Terminals

| Terminal Number | Circuit | Description                     |
|-----------------|---------|---------------------------------|
| 1               | +U      | Power supply voltage            |
| 2               | GND     | 0 V                             |
| 3               | D0      | 1-Wire interface (Touch Memory) |
| 4               | LEDR    | Red LED control                 |

Following are the diagrams for connecting the S2000-Proxy N with control and indicating equipment and access controllers produced by the Bolid Company (the S2000-Proxy N is always at the left side):

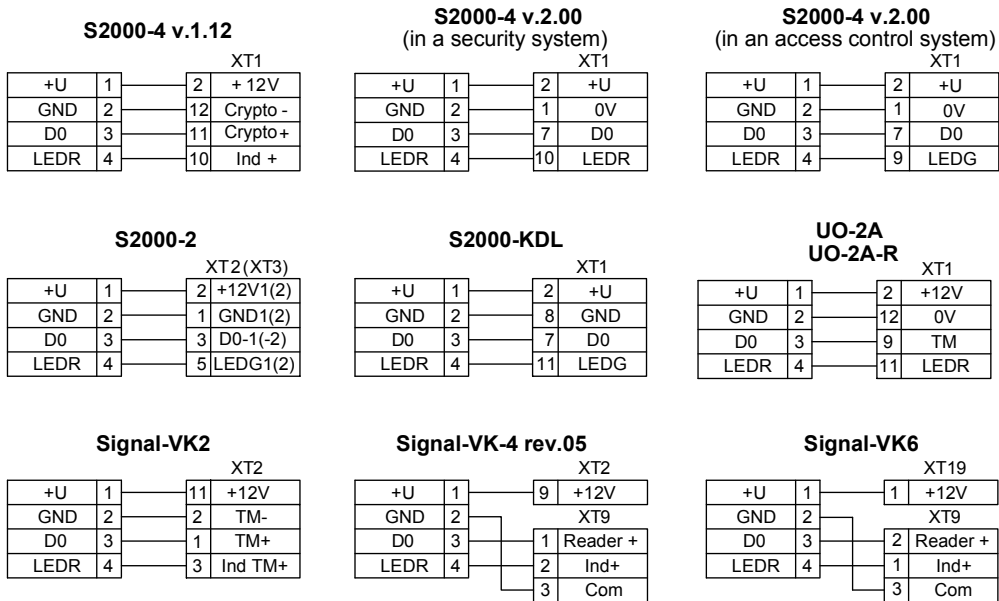


Figure 2

## 2.3 Mounting

2.3.1 To attach the reader to a wall, drill two holes as shown in Figure 1. Please take into account that read range decreases in case of influence of electromagnetic interference as well as if the reader is mounted on metal.

## 2.4 Testing the Reader

2.4.1 When powering up the controller or control panel, POWER LED of the reader shall show green light and the reader shall emit three short beeps.

2.4.2 Present any suitable ID card to the front of the reader. When the card is read the reader emits a beep. Further, the behavior of the READY LED depends on controller's reaction for the presented card.



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