Prox-T SL steel
VERSATILE VANDAL RESISTANT READER

Prox-T SmartLine
NEW GENERATION OF READERS

- **mobile credentials**
- **NFC and 2.4 GHz radio**
- **adjustable 2.4 GHz distance (0.1 - 12 m)**
- **Mifare Plus SL1/SL3 and Mifare Classic**
- **supports multiple formats of 125 kHz RFID**
- **smartphone adjustable**
- **adjustable Wiegand interface**
- **convinient and safe**
- **simple and convenient installation**
- **IP65 degree of protection**
- **stainless steel case**

The adjustable versatile SmartLine (SL) reader for mobile credentials and proximity identifiers in conjunction with the Prox-T Mobile ID application and Prox-T IDs will allow any access control system to use smartphones as access system credentials.

Prox-T ID

Digital personal mobile credential. It is processed and stored in the user's smartphone using the Prox-T Mobile ID application. It can be transferred over NFC and/or 2.4 GHz radio between the reader and the smartphone.

via NFC for Android only

Read range 2-5 cm. Recommended for double-sided doors and turnstiles.

via 2.4 GHz radio for Apple and Android

Reader supports 3 operation modes for smartphones with Prox-T ID:
- "Door-Proximity" – 10-20 cm, reader activates by built-in proximity sensor. Recommended for double-sided doors and turnstiles
- "Door" - up to 60-70 cm
- "Barrier/Gate" - adjustable range of interaction from 1 to 15 m.

Mifare® и Mifare®Plus

Operates with ISO14443A identifiers, supports SL1 and SL3 modes for Mifare®Plus. Read range — up to 5 cm.
Reads encrypted identifiers with static or diversified key and with an arbitrary card number.
Simultaneous use of five encryption profiles.

RFID, 125 kHz

Supports RFID 125 kHz - EmMarine and other formats.

Easy connection

Seamless and easy connection to existing and new access systems, due to the Wiegand 26, 32, 34, 37, 40, 42, 56, 58, 64 bit interfaces, Wiegand with automatic selection, RS-232 and TouchMemory supports.

Integration

RS-232 protocol for integration into arbitrary systems.

Mobile Apps

Free mobile application **Prox-T Mobile ID** receives, stores and transmits mobile credential Prox-T ID between the reader and the smartphone.

With the free mobile application **Prox-T Config**, the reader can be completely adjusted — from the indication to the encryption modes.

The reader is supplied without the engineering password for programming specified. To connect and (re) set the password — connect inputs D0 (green) and D1 (white) with each other and apply power to the reader.

Benefits

Read range	NFC, Mifare and RFID 125 kHz - up to 4 cm, 2.4 GHz radio - adjustable 10 cm - 12 m
Mifare®, 13,56 MHz	ISO14443A: Mifare®Standard, Mifare®Hi-Memory, Mifare®Ultralight, Mifare®Classic 1K/4K, Mifare®Classic 7UID, Mifare® Plus SL1 and SL3
NFC, 13,56 MHz	ISO 14443/15693
RFID, 125 kHz	ASK and FSK
Case material	1.2 mm stainless steel
Dimensions	80 x 114 x 16 mm
Weight	260 g
Ambient	IP65, -40°C . . . +60°C
Power supply	+9. . . +15 VDC, max current- up to 80 mA Voltage ripple - up to 500 mVp-p
Interfaces	Wiegand 26, 32, 34, 37, 40, 42, 56, 58, 64 bits, Wiegand Auto, RS-232 and TouchMemory
Wiring	8 wire cable, maximum distance to panel - up to 150 m for Wiegand interface, up to 30 м m for TouchMemory interface

Wiring

The reader connection wires functions are listed in the table. We recommend to use multi-core signal cable with 0.22 mm² cross-section of each wire between reader and panel.

Color	Wiegand	RS232	TouchMemory
Green	Data0 (WD0)	Rx	iButton
White	Data1 (WD1)	Tx	
Red	+V, 12 VDC		
Black	GND		
Brown	Red Led		Red Led
Orange	Green Led		Green Led
Blue	Beep		Beep
Yellow	Hold/Sync	Hold/Sync	Hold/Sync

Reader turns to the hold mode while yellow wire is shorted to ground and does not read any identifiers.
It is prohibited to supply the external voltage to the yellow wire!

Reader connection to the panel with twisted pair.

Wiegand

TouchMemory (iButton)
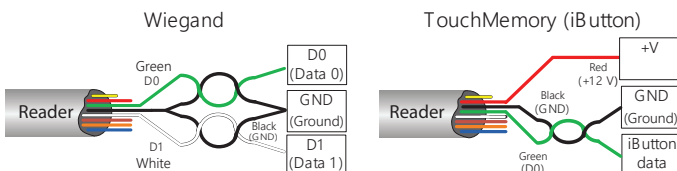
Reader Installation

Installation on the metal surfaces may cause decrease of reading range. Do not place readers closer than 20 cm one from another.
It is possible to install two readers at a distance 10-15 cm of each other when their yellow wires (Hold/Sync) interconnected. This synchronizes the work of the readers, they will work alternately.
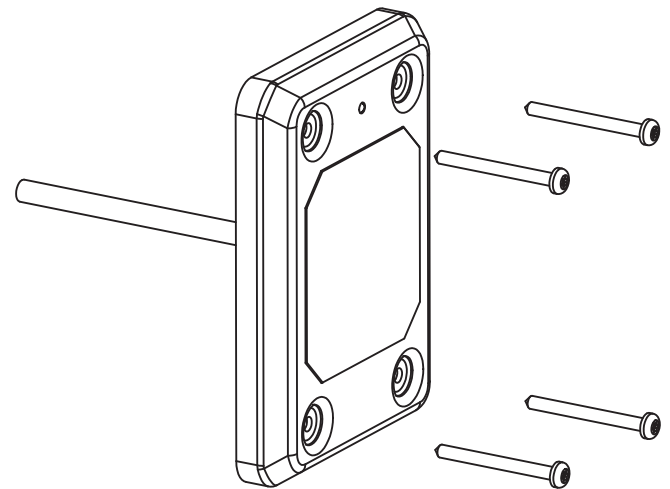
0. Make small recess or hole (diameter is 14 mm) to connect cable under the reader's case
1. Carry out wiring to the control panel
2. Using the body reader as a template mark and then drill four openings 6 mm in diameter and 35 mm deep
3. Fasten the reader to the wall, using supplied plastic dowels and screws.