

Smart Mini Universal Reader User manual

Introduction

The Smart Mini Universal Reader is intended to be applied in different access control systems, using RS232, Wiegand 26, Wiegand 37, Wiegand 42, Wiegand auto and Touch Memory interface.

The interface type is to be changed by special PC program. If you need to change the interface type please call your distributor. The reader is placed in elegant plastic case with two color LED indicator on front panel.

Types of cards

Integrated Technical Vision Itd manufactures readers operating with amplitude modulation (ASK) and/or frequency modulation (FSK) proximity cards and tags.

Benefits

Case

Oubo			
Material	ABS plastic		
Color	black, gray, white		
Dimensions	80 x 45 x 12,5 mm		
Weight	70 g		
Ambient Conditions	•		
Oper. temp.	-35°C +60°C		
Stor. temp	-30°C +80°C		
Humidity	100% rel. at +25 ⁰ C		
Electrical			
Voltage	+4,75 +16 VDC		
Current	up to 30 mA		
Max current	up to 50 mA		
Voltage ripple	up to 500 mV _{p-p} .		

Distance of reading

Typical reading distance is 50-100 mm and depends on tag type used with it.

Wiring

Reader has 8 wire cable for connecting to the access control panel.

Table 1. The wires assignment.

	W2 / W3 / W4 / WS	RS232 (reader)	DB-9 (computer)
Color	Function		
Green	Data 0	Rx	3
White	Data 1	Tx	2
Red	+V	+V	
Black	GND	GND	5
Brown	Red Led	-	
Orange	Green Led	-	
Blue	Веер	-	
Yellow	Hold	Hold	

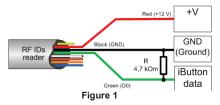
AWG22 multiwire signal cable is recommended. Using this cable the maximum length of 150 meters can be obtained^{*}.



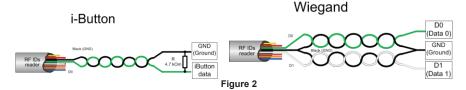
^{*} Not for RS232 interface



When you connect the reader to the interface TouchMemory (iButton), and it does not work consistently (for example, does not transmit the code identifier controller), you should use 4,7kOm resistor (supplied) installed between the terminal and iButton "Earth" reader, as shown in Fig. 1.



When using twisted pair (STP, UTP, FTP) to connect the reader should be followed the order of connection shown in Fig. 2.



Type of interfaces

The proximity reader is intended to apply in different access control systems, using RS232, Wiegand 26, Wiegand 37, Wiegand 42, Wiegand auto and Touch Memory interface.

Mounting

It is recommended to mount the reader on a wall closely to a door at appropriate height.

- Do not place the reader on the metal surfaces, since it causes decreasing of reading distance.
- If more than one reader is used in the system, place them not closer than 20 cm one from another to eliminate the effect of doublereading

If impossible to place readers at a distance more than 20 cm one from another it is allowed to place readers at a distance not less than 10 cm when their yellow wires are interconnected.

In this operating mode readers work synchronously and alternately.

Using this operating mode is not recommended when set automatic recognition type of proximity identifier (ASK/FSK).

Reader installation

- Loosen the screw at the bottom of the reader.
- Remove the top cover, remove the back plate.
- Mount the back plate of reader on the wall using the fixturing provided (see fig. 3).
- Prepare all wires for connection and connect them to the reader in according to Table 1 and User Manual of the access control panel to be utilized.
- Insert the reader in the back plate (see fig. 4).
- Put the top cover and tighten screw at the bottom of the reader.
- Ensure that all locking tabs are securely engaged.

