

### Operational description

The BIO-007 is intended to be used as a part of Access Control System.

The unit transmits to a host via two wires (DATA0 , DATA1) Wiegand data input from Keypad PIN number or proximity card.

The finger print module transmits and receives data through three RS232 wires.

A buzzer is giving acoustic feedback to each key press or card recognition.

The BIO-007 consists of the following components:

1. Piezoelectric Keypad
2. Proximity Reader.
3. Antenna
4. Finger print reader
5. Step motor
6. Power supply for the finger print reader and the motor + motor driver.

The components are linked to an electronic board that takes care of the unit proper functioning.

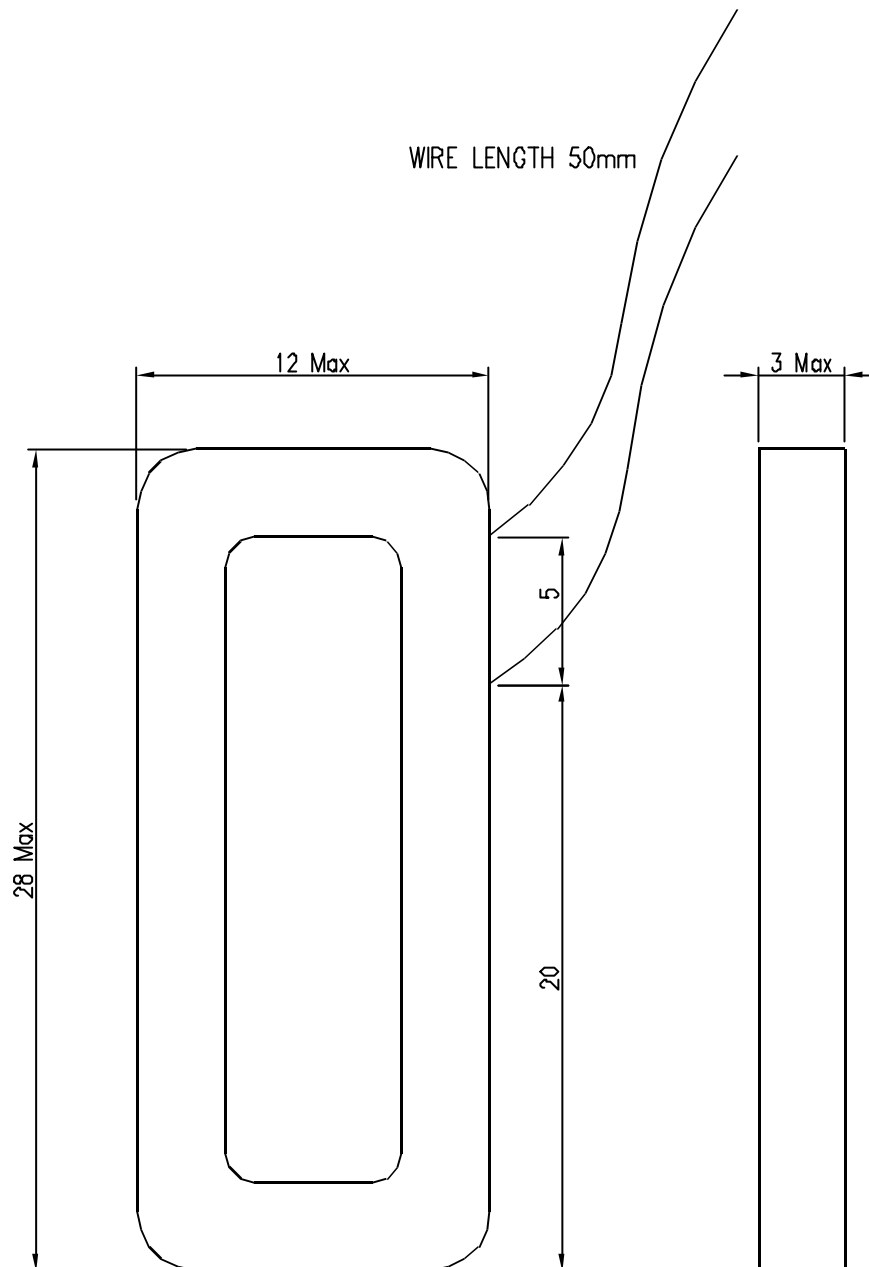
The BIO-007 functioning is as follows:

It performs 3 functions:


1. Reads proximity card and sends the data. When an appropriate encoded Proximity Card is presented within the antenna's sensing range (approx 5 cm) the data from the Card is transferred to the electronic board. The electronic board decodes the encryption into a Serial Protocol (for example Wiegand) and sends it to a Host computer.
2. Piezoelectric Keypad is used to KEY-In the PIN number.  
The PIN number is sent as a Serial Protocol (for example, Wiegand) and sends it to a Host computer.
3. The Finger Print Reader reads finger prints and sends to host via RS232.

The Host may require one of this function ore more. After the host gets the data it opens the door if criteria are met.

The BIO-007 is equipped with a Buzzer and LEDs to facilitate the Human Machine Interface. A drawing of an integral antenna, manufactured by STANDEX, is shown on the next page:



INDUCTANCE 715  $\mu$ H 2%  
 WIRE THINCKNESS – THE BEST YOU GET  
 DIMENSION IN MM

Itemref	Quantity	Title/Name, designation, material, dimension etc	Article No./Reference		
Baran 84965	House Israel	8 Omarim St. Omer industrial area Tel. 972-8-6200020 Fax. 972-8-6200021	Draw Date 25.08.2002		
Designed by Inna Hatkevich	Checked by Armand	Approved by - date	Filename 80030026_839-002	Drawing_n 839-002	Scale 4:1
 ADVANCED TECHNOLOGIES			PROXIMITY ANTENNA		
			Cat num: 80030026	Edition 1	Sheet 1/1