Functional Description of QNX-ASPKB

The QNX-ASPKB consists of the following components:

1. Piezoelectric Keypad
2. Proximity Reader.
3. Antenna

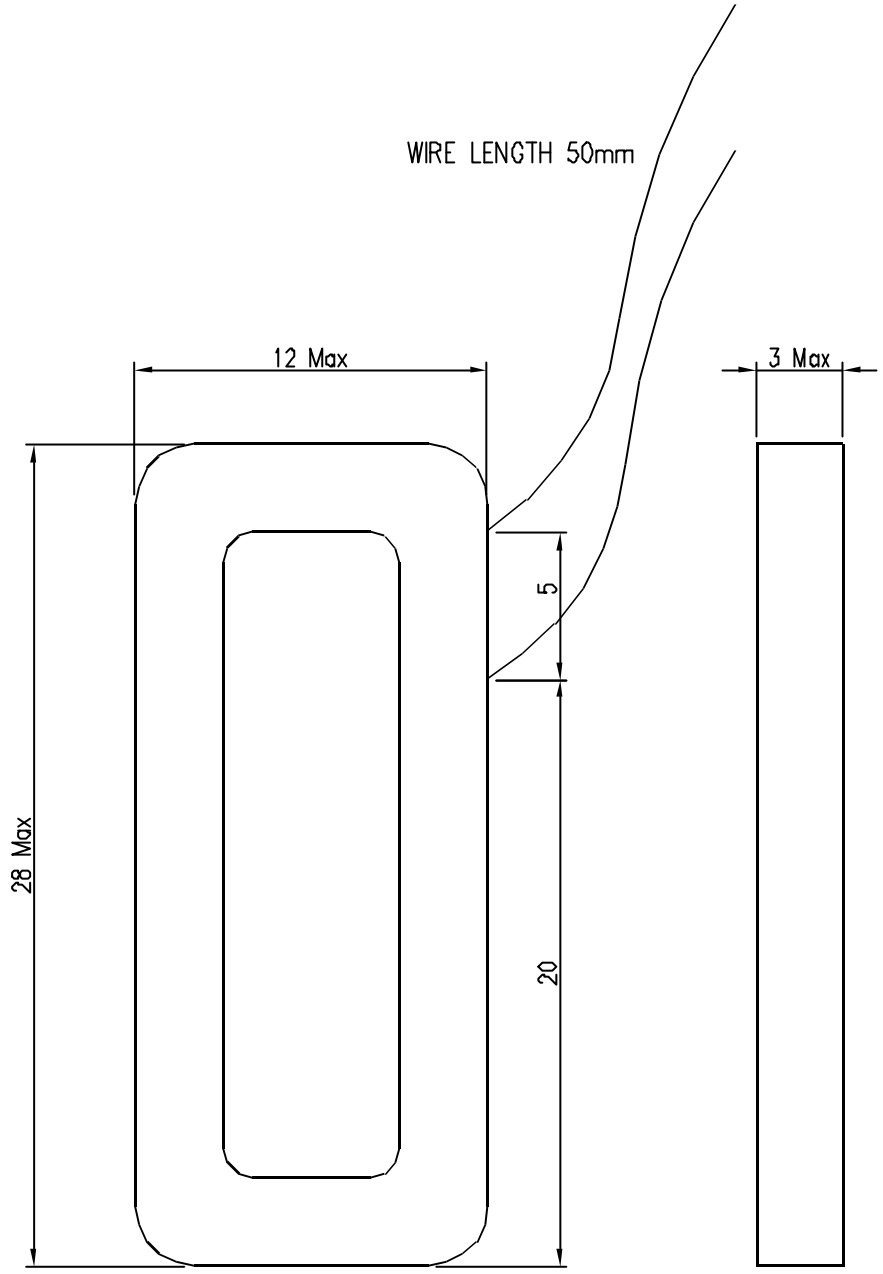
The a. m. components are linked to an electronic board that takes care of the unit proper functioning.

The QNX-ASPKB functioning is as follows:
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. The Host validates the data and issues the appropriate command, for example (open Door).
Some applications require that the Data collected from the Proximity card should be accompanied by a PIN number.
In those cases the Piezoelectric Keypad is used to KEY-In the PIN number.
The unit functions as follows:
First the Proximity Card is presented and after the QNX-ASPKB reads the data and sends it to the Host, the Card Owner must Key-In the personal PIN number that matches the Card.

Then the Host decides what command should be issued.

The QNX-ASPKB 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:



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Designed by Inna Hatkevich	Checked by Armand	Approved by – date	Filename 80030026_839-002
Drawing_n 839-002	Scale 4:1		
BARAN ADVANCED TECHNOLOGIES	PROXIMITY ANTENNA		
Cat num: 80030026	Edition 1	Sheet 1/1	