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Product Technical Description

The ICLASS Proximity reader with Keypad **ASHKB** is used to facilitate Controlled Access. The unit reads data embedded on special encoded Proximity cards, allows for P.I.N. number enter and deliver it to a central controller using Wiegand protocol.

The iCLASS Proximity reader **ASHKB** is built of 3 parts as follows:

1. PCB with Piezoelectric switches . 12 units connected into a Matrix of 3 Columns and 4 Rows.

This PCB holds the antenna for the HID module.

The Antenna is built onto the PCB as 3 Loops of 3 Ounces Copper Wires.

The same PCB holds the Tuning capacitors for the antenna.

The Antenna is tuned at the factory and there is no access to it unless the product is damaged.

2. HID manufactured iCLASS Module Model

OEM 100 Reader/Writer OEM Module

Allows for easy integration of iCLASS read/write contactless smart card technology into third-party manufactured product.

- Base Model Number: 3100* Frequency of 13.56 MHz
- Provides Wiegand and TTL output formats in a compact package.
- Dimensions: 3.600" x 1.450" x .454" (9.144 cm x 3.683 cm x 1.153 cm).

The Module is Proprietary to HID and electronic design not disclosed.

This module is connected via Coaxial cable 10 cm long to the antenna.

3. Electronic Interface. This part provides the management and the outside communication for the Piezoelectric switches and the OEM 100 HID module.

The entire unit is integrated into an aluminum shell and Potted.

There is no access to the electronics unless the product function is impaired.

The unit is designed to work on 10 to 16 VDC with a consumption of 70 mA and peaks of 250 mA.