

## INS serial 13.56M + 125k card reader

125K card reader and also 13.56MHz dual frequency card readers. INS serial products are in different case but with same hardware in one set PCBA. It reads 13.56M mifare card and 125K HID compatible cards, and with wiegand interface or RS485 as per customer's request.

Model Name: S1,B1 etc

Product Picture

Wiring :

Red: Power 5-16V

Black: Power ground

Green: Wiegand output D0

White: Wiegand output D1

Yellow: Buzzer

Orange: LED

Specification:

Power requirement	5-16VDC at 100mA, A linear regulator is recommended
Support card	125K or 13.56M proximity cards and fobtags.
Interface	Weigand
Read range	5 - 10 cm
Frequency	125.62KHz , 13.56M
Operating temperature	-30°C to +60°C
Operating humidity	5%-95% (non-condensing)
Audio/Visual Indication	Green & Red and Buzzer signal output
Response Time	Less than 0.2 seconds
Cable length	250mm
Weight	100-200gram per different model

LED/Buzzer function description

LED function: The LED color is normally in RED. It starts with green flashe and will keep RED. When card is detected successful, LED will flash green momentarily, this indicates cards were read properly. When LED control signal is activated by access controller host, LED will change to green.
Beeper Function: When Power up the reader, Beeper will ring 2 times. When cards is detected successful, a short beep will be emitted. This indicates that HID card was read properly.
Buzzer control line when this control line is activated to lower by access controller host or connect to Ground line, buzzer will keep ringing until the line is released.
Green LED control line when it is activated by access controller host or connect to ground line, Green LED will keep lighting until the line is released.

## **Federal Communications Commission (FCC) Statement**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Warning:** Changes or modifications made to this device not expressly approved by INS Global Pty Ltd may void the FCC authorization to operate this device.

**Note:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.