



Introduction to INS D5

Thank you for purchasing an INS D5 Series Mifare Contactless Smart Card & Keypad Reader.

The Keypad will output Cotag 4422 format. It can be custom configured on request.

Wiring methods shall be in accordance with National Electrical Code, ANSI/NFPA70.

 Discharge the body of static electricity before wiring the unit

1. Connect the 0V (GND).
2. Connect the other Required cables apart from 12Vdc.
3. Attach the 12Vdc wire last.

D5 | series INSTALLATION GUIDE

Version 2.1

Specifications

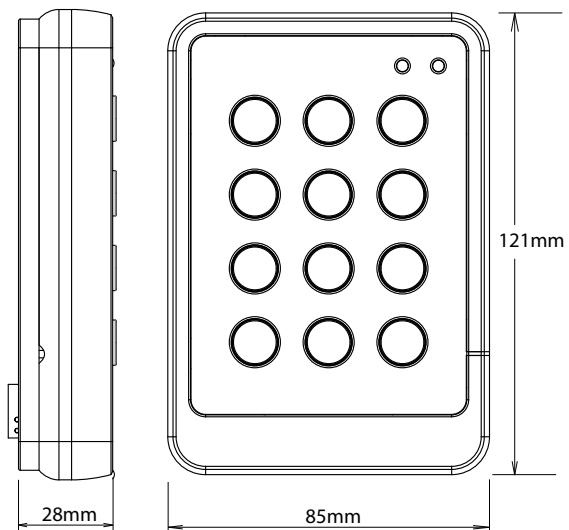
Reader output	Wiegand 26-199 bit
Power requirements	+9Vdc to +24Vdc
Current consumption	
Normal (@12V)	123mA
Activated (@12V)	132mA
Read range	30 - 50mm (1.2" - 2.0") (typically)
Operating Temperature	0°C to +55°C (32°F to 131°F)
Relative Humidity	90% max, operating non-condensing
Status LED's	Red / Green Bicolour, Yellow
Audible tone	External buzzer control
Keypad	3 x 4 Keypad
Tamper switch	Internal Magnet / Reed Switch mounted to wall bracket

Information contained in this document is subject to change without notice

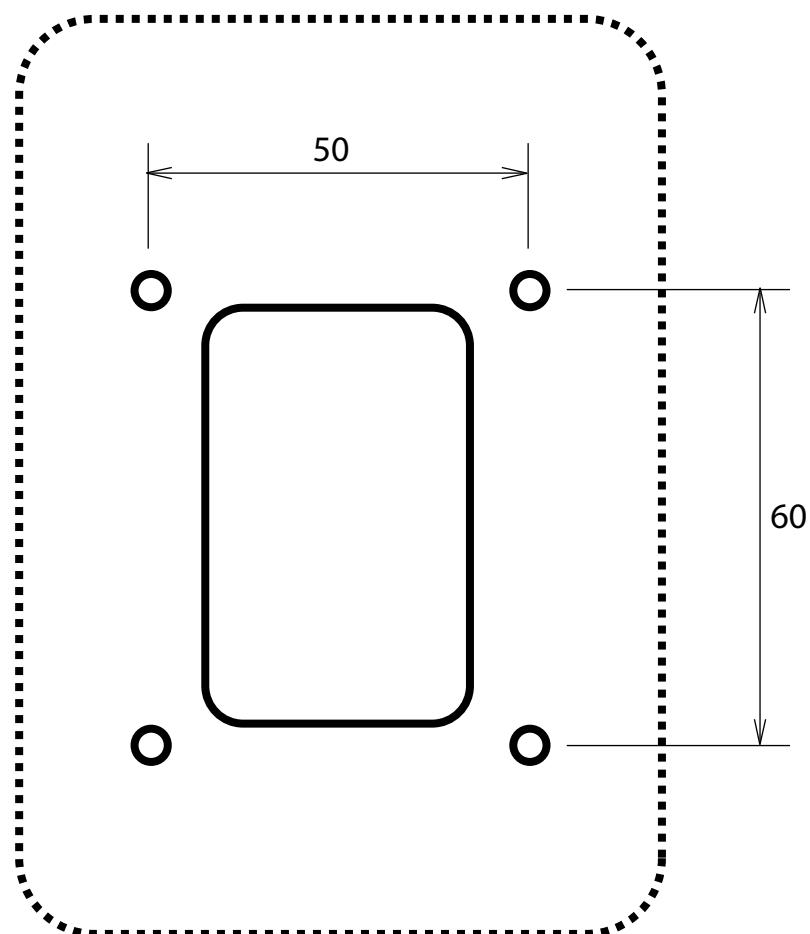
Warranty

The D5 Series reader comes with a 3 year warranty from the date of dispatch from INS Global. The warranty is void if the installation instructions contained with this manual have not been adhered to.

Any changes or modifications not approved by INS Global could void the user's authority to operate this equipment.



DRILLING TEMPLATE
SCALE 1:1
DIMENSIONS IN MMS

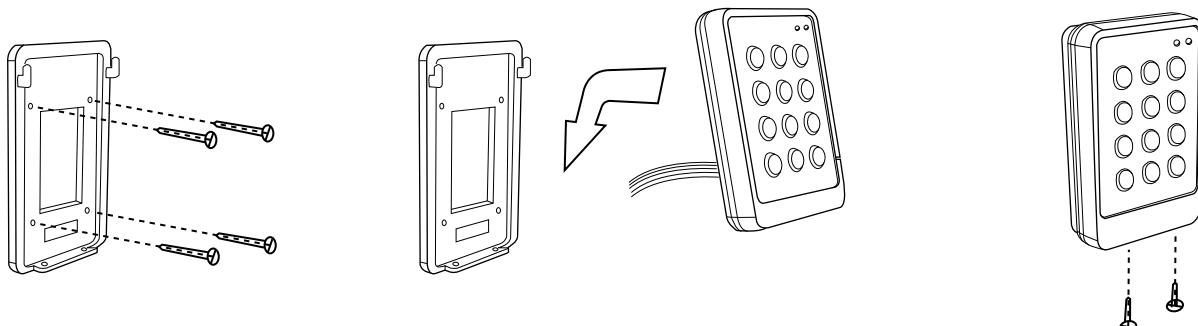


Placing the reader

1. Insert four (4) screws (not included) into holes

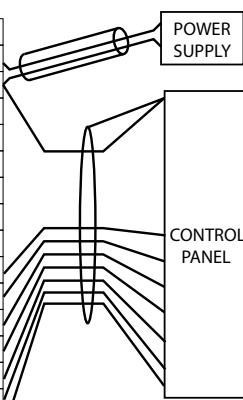
2. Hook reader onto base.

3. Attach reader to base with base screws (included)



General Wiring Schematic

Function	Cable Colour
Vin (12VDC)	RED
GND	BLACK
GND	BLACK
GND	BLACK
WIEGAND (W0)	GREEN
WIEGAND (W1)	WHITE
LED I/P	ORANGE
BUZZER I/P	YELLOW
TAMPER SWITCH (EXTERNAL)	BLACK (2 WIRES)



NOTE

The 0V reference cable shall be included withing the controller cable.
The 12Vdc power cable shall NOT be included in the controller cable.
Only one power source is connected to the reader at any time.
LED line is low activated

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 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.