INS GLOBAL
Access Control

D5 series INSTALLATION GUIDE

Version 2.1

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.

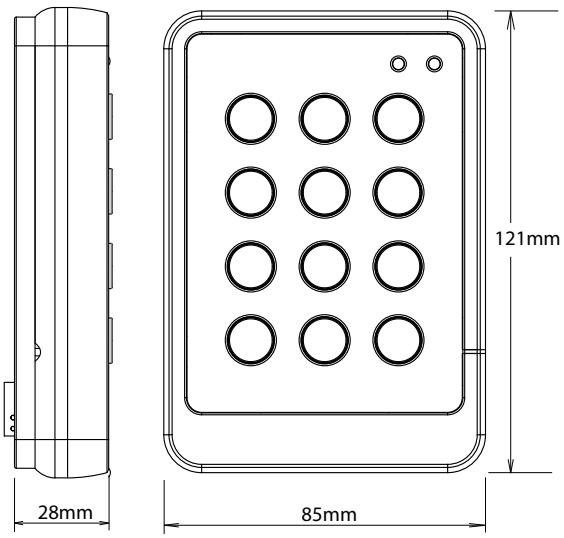
Wiring methods shall be in accordance with National Electrical Code, ANSI/NFPA70.

⚠ 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.

Specifications

Reader output	Wiegand 26-199 bit RS485
Power requirements	+9Vdc to +24Vdc
Current consumption	
Normal (@12V)	123mA
Activated (@12V)	132mA
Read range	20 - 40mm (0.8" – 1.6")(typically)
Operating Temperature	0ºC to +55ºC (32ºF to 131ºF)
Relative Humidity	90% max, operating non-condensing
Status LED's	Red / Green Bicolour, Yellow
Audible tone	External buzzer control
Keypad	3 x 4 Keypad



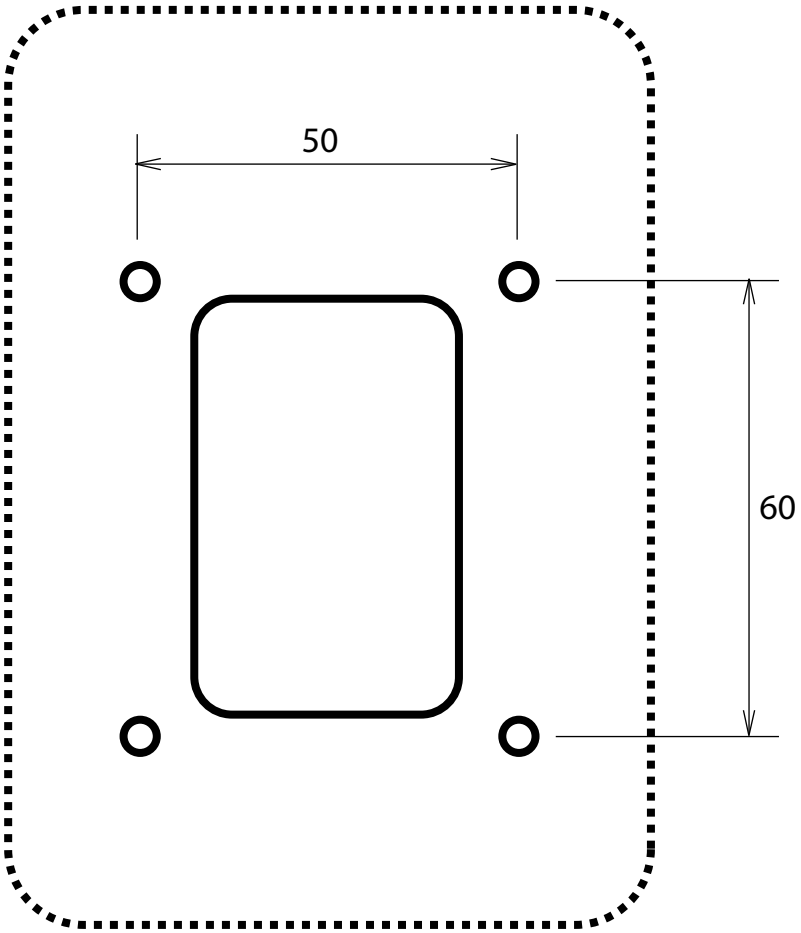
Information contained in this document is subject to change without notice

Warranty

The D5 Series reader comes with a 1 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.

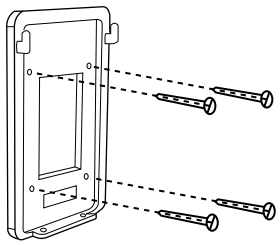
Any changes or modifications not approved by INS Global could void the user's authority to operate this equipment.

DRILLING TEMPLATE
SCALE 1:1
DIMENSIONS IN MMS

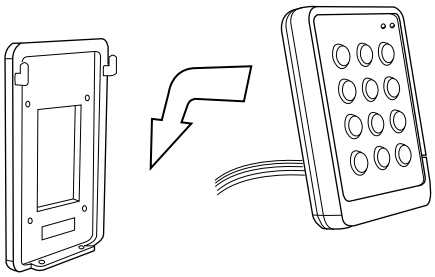


Placing the reader

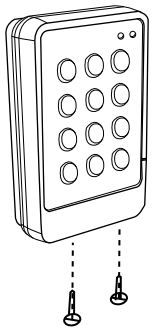
1. Insert four (4) screws (not included) into holes



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
WIEGAND (W0)	GREEN
WIEGAND (W1)	WHITE
LED I/P	ORANGE
BUZZER I/P	YELLOW
RS485A	BLUE
RS485B	VIOLET

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