Installation and Operation Manual
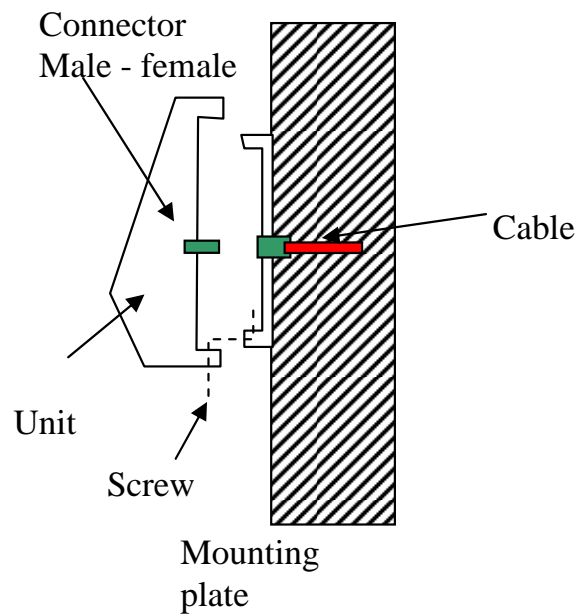# PAT 13x2

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Installation Instructions:

- Fix the mounting plate in an appropriate position on the wall, where the cable can be easily connected to the back of the reader.
- Place the reader on the mounting plate and fix it by using mounting screw.

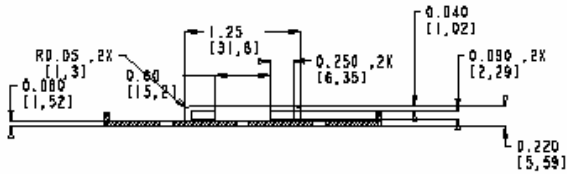This is shown in the picture below.

Mounting plate details

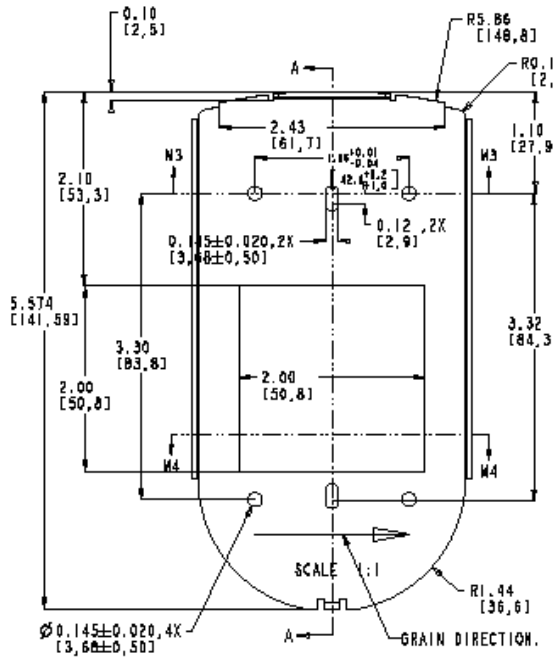**Fig 1.1 Mounting plate (Horizontal view)**
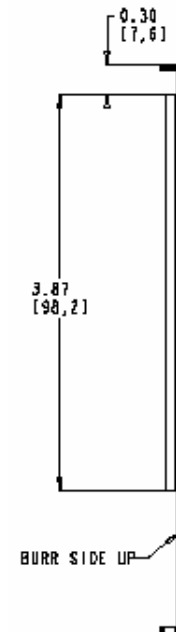

Fig 1.2 Mounting plate (Normal view)

Fig 1.3 Mounting plate (Vertical view)

Pin details

Connector details for Wiegand/Magstripe – 10pin connection

Pin Number	Signal Name
1	Relay IN1
2	Relay IN2
3	Relay IN3
4	Relay GND
5	Wiegand Data0 / Mag Data
6	Wiegand Data1 / Mag CLK
7	Wiegand LED IN
8	Wiegand Buzzer IN
9	Wiegand GND
10	Wiegand +12V

Connector details for RS485 – 8pin connection

Pin Number	Signal Name (Full Duplex Operation)	Signal Name (Half Duplex Operation)
1	RX_A	RX/TX_A
2	RX_B	RX/TX_B
3	TX_A	No connection
4	TX_B	No connection
5	RS485 GND	RS485 GND
6	SHIELD	SHIELD
7	Power +12V	Power +12V
8	Power GND	Power GND

A – Non-inverted RS485 differential signal; B – Inverted RS485 differential signal

**Only for reader installed at the ends in the RS485 network

Testing:
- Connect the reader to the host through Wiegand/Magstripe/RS485 interface
- Switch on the power to the reader and check if the keypad LED glows. This signifies that the reader is waiting for the PIN
- Enter the PIN
- Check if the contactless LED glows. This activity of the reader signifies that the PIN has been successfully accepted and the reader is waiting for the contactless card.
- Wave the Contactless Test card in front of the reader.
- Check for the contact less LED to blink steadily .This activity of the reader signifies that the reader is reading the data from the card and passing it to the host.
- For a successful read, the access control LED bar should glow in GREEN and a short beep sound must be heard from the reader.

Note: The Product is to be connected to a UL Listed compatible Access Control System.

CAUTION

Changes or modifications to hardware that are not expressly approved by SCM Microsystems shall void the user's authority to operate the equipment.