Installation Note

5298 PIN & Proximity Reader

IN062

Mounting, connecting and setting up

Mount the 5298 Reader in a suitable position near the door approximately 1.2m from the floor.

The Reader has a mounting plate with two mounting holes which are suitable for most installations.

1. If the Reader is fixed to the mounting plate, undo the two screws which are at the top right and bottom left of the keypad, then place the mounting plate in position on the wall or door frame and mark the position of the two mounting holes - these are the two oval holes in the mounting plate.
2. Drill the two mounting holes. The holes accept 3.5mm machine screws or No 6 wood screws.
3. The connections are made to CONN1 on the rear of the Reader. Pass the cable through the large hole in the centre of the mounting plate and make the connections shown in the following table as required.

CONN1	Name	Function
1	V+	Power supply +V (+ve) *(see below for voltage range in each jumper setting)
2	0V	Power supply 0V (-ve), (also ground reference for data output)
3	$\overline{H}$	Data Hold for Wiegand output (+5V max)
4	Horn	Horn - 0V to sound, +5V to turn off
5	R	Red LED control - 0V for red LED
6	R/G	Single wire LED control 0V for green LED, +5V for red LED (red and green LEDs on together give amber)
7	D0	Data zero for Wiegand output
8	D1	Data one for Wiegand output
9	DA	Data Available for Wiegand output

*Jumper JU1 on the circuit board determines the range of voltage which can be used to power the Reader as shown in the following table.

JU1	Power supply voltage range
24	unregulated DC: max 35.0V*, min 15.6V, 100mA max
5/15	unregulated DC: max 15.6V, min 4.0V, 100mA max

*If you are using a power supply at or near the 35V maximum, the ambient temperature of the environment where the Reader is installed must not exceed 55°C.

Note: do not apply a voltage greater than +5V to the data hold input, the horn input, or the LED inputs

4. Remove the protective label from the horn on the back of the Reader.

5. Route the cable tidily, then screw the mounting plate to the wall or door frame, and screw the Reader to the mounting plate.

6. If the 5298 Reader has been configured by your supplier, you can power it up and test it, see step 8.

7. If you need to configure the 5298 Reader yourself, power it up and present the configuration card to the Reader within 4 seconds of power up. During this 4 second period, the LED indicator on the Reader is green.
   After reading the configuration card, the Reader bleeps and the LED lights amber for a short period before returning to green. The Reader now gives you a further 8 seconds to present one of the normal programmed cards which will be used with the system. Doing this teaches the Reader its Distributor and Secondary Codes.

8. After configuring the Reader, test it by presenting a valid card. The Reader's red LED should go out and the host should receive the card data output. Each key-press should give an amber flash and a horn bleep, and the host should receive PIN data.

For more information on the 5298 PIN & Proximity Reader, please see the 5298 PIN & Proximity Reader Handbook HB02/96.