PX 95

MiniProx Reader Installation Manual

Installation Requirements

The following instructions will explain the installation procedure for the MiniProx Reader. The instructions include these sections:

Mounting Instructions (hazardous & nonhazardous)

Connecting the Reader to the Host

Testing & Operation of the MiniProx Reader

Parts List (Included)	Quantity
1) MiniProx	1
2) #6-32 x 1" self tapping, Type T or 232	2
3) This Installation Sheet	1
4) Box, Hazardous unit only	1
Parts Recommended (not included)	
1) Wire Splice	9
2) Grommet	1
3) DC Power Supply 4.75 to 16VDC, 50mA	1
4) Cable, 10 conductor , 22 AWG	

Mounting Instructions

1. Determine an appropriate mounting position for the Reader.

Tolerances .xx =/- .03"
           .xxx =/- .010"

2X• ø•.172•THRU   2X• ø•.300 COUNTERBORE

5.25   6.00
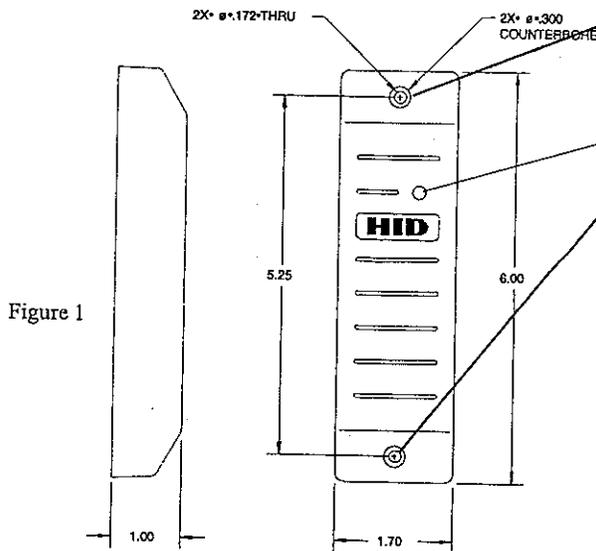
1.00   1.70

Figure 1

2. Drill two 7/64th (.109) inch holes for mounting the Reader to the surface.

3. Drill a 3/8 to 1.0 inch hole for the cable. If you are mounting on metal place a grommet around the edge of the hole.

4. Route the interface cable from the Reader and/or power supply to the Host. *Linear type power supply is recommended.*

Check all electrical codes for proper cable installation

Mount the Reader with the screws provided when mounting onto metal mullions or junction boxes. On other materials use appropriate fasteners.

Connecting the Reader to the Host

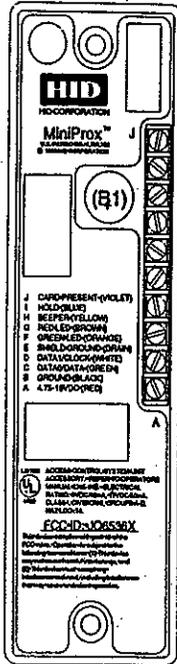The MiniProx is available with an 18" **Pigtail** with a 10 conductor cable and a 10 conductor **terminal strip.**

a. **Pigtail** - Prepare the new cable by cutting the cable jacket back 1-1/4" and strip the wires ¼".
b. Splice the cable and the pigtail together and seal the splice if the Thin Line will be an outdoor unit. **Trim and cover all conductors that are not used.**
c. **Terminal Strip** - Loosen the terminal strip screws until the top of the screw is flush with the back surface of the Reader. **Be careful not turn them further; they are not captive and will fall out.**

d. Prepare the new cable by cutting the cable jacket back 1-1/4 inches and strip the wire ¼ ". **Twist the ends of the wires to eliminate stray strands.**
e. Form each wire into a hook and install each wire by wrapping it around the screw.

Connect the Reader to the Host according to this wiring diagram and the Host installation guide.
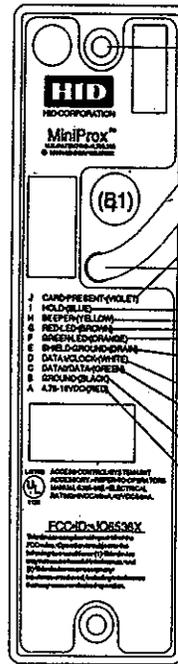
The legend for wiring is color coded according to the "Wiegand Standard" for the recommended cable.

The numbering for the terminals is shown on the back label and in Figure 2

Figure 2

Color	Wiegand	Clock & Data
Violet	---	Card Present
Blue	*Hold	*Hold
Yellow	*Beeper	*Beeper
Brown	*Red LED	*Red LED
Orange	*Green LED	*Green LED
Drain	Shield Ground	Shield Ground
White	Data 1	Clock
Green	Data 0	Data
Black	Ground	Ground
Red	+DC	+DC

* These connections are OPTIONAL.
All other connections are required.

Terminal Strip   **Pigtail**

Marking the wires will make future maintenance easier.

Cable Notes

1) When using a separate power supply for the Thin Line II, the power supply and Host should have a common ground (voltage reference).

2) If the Host is controlling the beeper, Hold, or the LEDs are configured for the dual LED mode, additional conductors will be required. The recommended cables are Alpha 1295C, 1296C, 1297C, 1298C and 1299C that are five, six, seven, eight and nine conductors respectively. Larger wire gauges are acceptable. The wire is to be stranded with an overall shield, either foil or braided.

3) The Cable shield should be connected to the Shield Ground on Reader TB1- E, and left floating at the panel or power supply end of the cable. This configuration is the best for shielding the reader cable from external interference and reducing the likelihood of the Reader causing interference.

Testing & Operation of the MultiProx Reader

After wiring the Reader and power supply, the Reader is ready to be tested.

1. Power up the Reader and the LED and Beeper will flash and beep 3 times in a sequence of two short delays and one long delay. This indicates that the micro-controller unit is working properly.
2. Present an ID card to the Reader and the LED should momentarily turn green, indicating a read of the card.
3. If the Reader LED is controlled by the Host refer to the Host description of the LED operation.

NOTES:
THE ABOVE ARE RECOMMENDED INSTALLATION PROCEDURES. ALL LOCAL, STATE AND NATIONAL ELECTRICAL CODES TAKE PRECEDENCE.