



Secured Series Front End Reader Installation Instructions

Proximity Reader (*ProxPro, ProxPro w/keypad, MiniPro, Thinline II*)

Installation Procedure:

- Step 1: Check the Packing List
- Step 2: Mount the Proximity Reader
- Step 3: Mount the Interface Board
- Step 4: Connect the Proximity Reader and Interface Board to the Hub Controller
- Step 5: Set the Site Code (if necessary)

Step 1: Check the Packing List

- 1 Proximity Reader
- 1 Interface Circuit Board
- 1 Four-Conductor Wire Harness
- 1 Hardware pack (two screws and one grommet for cable)
- 1 HID Installation Manual
- 1 IEI Secured Series Front End Reader Installation Guide

Step 2: Mount the Proximity Reader

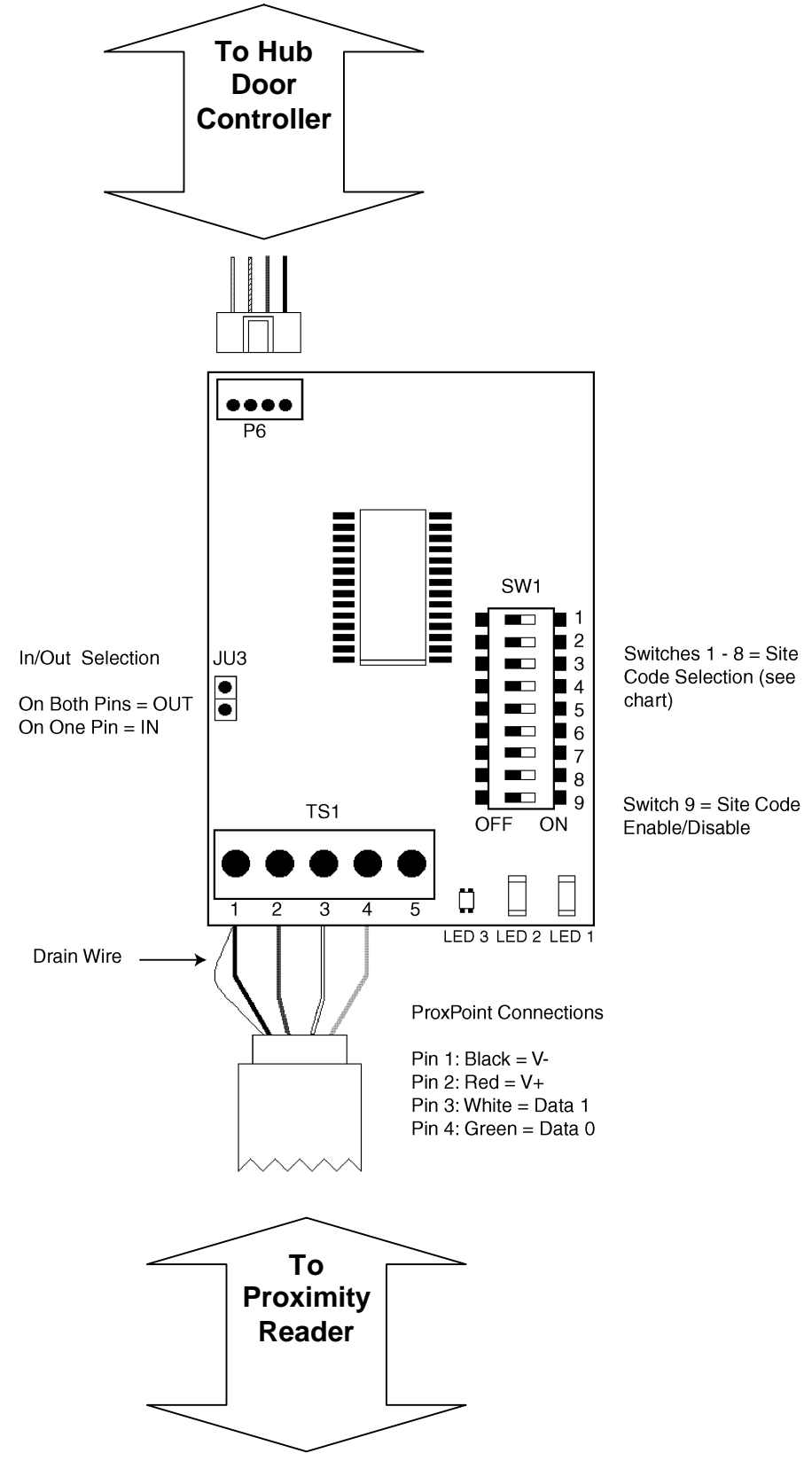
1. Select an appropriate location to mount the Proximity Reader.
2. Follow the installation procedure in the HID Installation Manual

Step 3: Mount the Interface Board

If possible, IEI recommends that you mount the Interface Board close to the Hub Door Control Module. The Interface Board can be located up to a maximum of 500 feet from the Proximity Reader (using 20 AWG four-conductor stranded cable with overall foil shield). If necessary, you can mount the Interface Board up to 1000 feet from the Hub Door Control Module (using 18 AWG four-conductor, stranded cable with overall foil shield). This gives you the ability to connect the Proximity Reader up to 1500' from the Hub Door Control Module if required.

The Interface Board comes with double-sided foam tape so you can easily mount it in either an enclosure or single gang box.

Step 4: Connect the Proximity Reader and Interface Board to a Hub Door Control Module



BE SURE YOU ARE USING STRANDED/SHIELDED CABLE OF THE CORRECT GAUGE BETWEEN THESE UNITS.
 Secured Series *ProxPoint* Installation Instructions
 Document # 6065750 Rev 2.0 Fax Document # 5750

Step 5: Set the Site Code (if necessary)

See the diagram above for dip switch (SW1) location.

Dip Switch 9: If all the HID Cards you are using have the same Site Code, you can enable the Site Code Verification function on the interface board to limit card possibilities.

When this switch is set to **on** the Site Code Number verification function is **enabled**.
When this switch is set to **off** the Site Code Number verification function is **disabled**.

Dip Switches 1 – 8: These eight dip switches set the site code number (0-255) you want to be recognized. This is set using binary format.

If a dip switch is set to **on** it equals **1**.

If a dip switch is set to **off** it equals **0**.

Site Code Selection Chart

Site Code	Dip Switch Number								Site Code	Dip Switch Number								Site Code	Dip Switch Number							
	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
0	0	0	0	0	0	0	0	0	34	0	1	0	0	0	1	0	0	68	0	0	1	0	0	0	1	0
1	1	0	0	0	0	0	0	0	35	1	1	0	0	0	1	0	0	69	1	0	1	0	0	0	1	0
2	0	1	0	0	0	0	0	0	36	0	0	1	0	0	1	0	0	70	0	1	1	0	0	0	1	0
3	1	1	0	0	0	0	0	0	37	1	0	1	0	0	1	0	0	71	1	1	1	0	0	0	1	0
4	0	0	1	0	0	0	0	0	38	0	1	1	0	0	1	0	0	72	0	0	0	1	0	0	1	0
5	1	0	1	0	0	0	0	0	39	1	1	1	0	0	1	0	0	73	1	0	0	1	0	0	1	0
6	0	1	1	0	0	0	0	0	40	0	0	0	1	0	1	0	0	74	0	1	0	1	0	0	1	0
7	1	1	1	0	0	0	0	0	41	1	0	0	1	0	1	0	0	75	1	1	0	1	0	0	1	0
8	0	0	0	1	0	0	0	0	42	0	1	0	1	0	1	0	0	76	0	0	1	1	0	0	1	0
9	1	0	0	1	0	0	0	0	43	1	1	0	1	0	1	0	0	77	1	0	1	1	0	0	1	0
10	0	1	0	1	0	0	0	0	44	0	0	1	1	0	1	0	0	78	0	1	1	1	0	0	1	0
11	1	1	0	1	0	0	0	0	45	1	0	1	1	0	1	0	0	79	1	1	1	1	0	0	1	0
12	0	0	1	1	0	0	0	0	46	0	1	1	1	0	1	0	0	80	0	0	0	0	1	0	1	0
13	1	0	1	1	0	0	0	0	47	1	1	1	1	0	1	0	0	81	1	0	0	0	1	0	1	0
14	0	1	1	1	0	0	0	0	48	0	0	0	0	1	1	0	0	82	0	1	0	0	1	0	1	0
15	1	1	1	1	0	0	0	0	49	1	0	0	0	1	1	0	0	83	1	1	0	0	1	0	1	0
16	0	0	0	0	1	0	0	0	50	0	1	0	0	1	1	0	0	84	0	0	1	0	1	0	1	0
17	1	0	0	0	1	0	0	0	51	1	1	0	0	1	1	0	0	85	1	0	1	0	1	0	1	0
18	0	1	0	0	1	0	0	0	52	0	0	1	0	1	1	0	0	86	0	1	1	0	1	0	1	0
19	1	1	0	0	1	0	0	0	53	1	0	1	0	1	1	0	0	87	1	1	1	0	1	0	1	0
20	0	0	1	0	1	0	0	0	54	0	1	1	0	1	1	0	0	88	0	0	0	1	1	0	1	0
21	1	0	1	0	1	0	0	0	55	1	1	1	0	1	1	0	0	89	1	0	0	1	1	0	1	0
22	0	1	1	0	1	0	0	0	56	0	0	0	1	1	1	0	0	90	0	1	0	1	1	0	1	0
23	1	1	1	0	1	0	0	0	57	1	0	0	1	1	1	0	0	91	1	1	0	1	1	0	1	0
24	0	0	0	1	1	0	0	0	58	0	1	0	1	1	1	0	0	92	0	0	1	1	1	0	1	0
25	1	0	0	1	1	0	0	0	59	1	1	0	1	1	1	0	0	93	1	0	1	1	1	0	1	0
26	0	1	0	1	1	0	0	0	60	0	0	1	1	1	1	0	0	94	0	1	1	1	1	0	1	0
27	1	1	0	1	1	0	0	0	61	1	0	1	1	1	1	0	0	95	1	1	1	1	1	0	1	0
28	0	0	1	1	1	0	0	0	62	0	1	1	1	1	1	0	0	96	0	0	0	0	0	1	1	0
29	1	0	1	1	1	0	0	0	63	1	1	1	1	1	1	0	0	97	1	0	0	0	0	1	1	0
30	0	1	1	1	1	0	0	0	64	0	0	0	0	0	0	1	0	98	0	1	0	0	0	1	1	0
31	1	1	1	1	1	0	0	0	65	1	0	0	0	0	0	1	0	99	1	1	0	0	0	1	1	0
32	0	0	0	0	0	1	0	0	66	0	1	0	0	0	0	1	0	100	0	0	1	0	0	1	1	0
33	1	0	0	0	0	1	0	0	67	1	1	0	0	0	0	1	0	101	1	0	1	0	0	1	1	0

Site Code	Dip Switch Number								Site Code	Dip Switch Number								Site Code	Dip Switch Number							
	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
102	0	1	1	0	0	1	1	0	154	0	1	0	1	1	0	0	1	206	0	1	1	1	0	0	1	1
103	1	1	1	0	0	1	1	0	155	1	1	0	1	1	0	0	1	207	1	1	1	1	0	0	1	1
104	0	0	0	1	0	1	1	0	156	0	0	1	1	1	0	0	1	208	0	0	0	0	1	0	1	1
105	1	0	0	1	0	1	1	0	157	1	0	1	1	1	0	0	1	209	1	0	0	0	1	0	1	1
106	0	1	0	1	0	1	1	0	158	0	1	1	1	1	0	0	1	210	0	1	0	0	1	0	1	1
107	1	1	0	1	0	1	1	0	159	1	1	1	1	1	0	0	1	211	1	1	0	0	1	0	1	1
108	0	0	1	1	0	1	1	0	160	0	0	0	0	0	1	0	1	212	0	0	1	0	1	0	1	1
109	1	0	1	1	0	1	1	0	161	1	0	0	0	0	1	0	1	213	1	0	1	0	1	0	1	1
110	0	1	1	1	0	1	1	0	162	0	1	0	0	0	1	0	1	214	0	1	1	0	1	0	1	1
111	1	1	1	1	0	1	1	0	163	1	1	0	0	0	1	0	1	215	1	1	1	0	1	0	1	1
112	0	0	0	0	1	1	1	0	164	0	0	1	0	0	1	0	1	216	0	0	0	1	1	0	1	1
113	1	0	0	0	1	1	1	0	165	1	0	1	0	0	1	0	1	217	1	0	0	1	1	0	1	1
114	0	1	0	0	1	1	1	0	166	0	1	1	0	0	1	0	1	218	0	1	0	1	1	0	1	1
115	1	1	0	0	1	1	1	0	167	1	1	1	0	0	1	0	1	219	1	1	0	1	1	0	1	1
116	0	0	1	0	1	1	1	0	168	0	0	0	1	0	1	0	1	220	0	0	1	1	1	0	1	1
117	1	0	1	0	1	1	1	0	169	1	0	0	1	0	1	0	1	221	1	0	1	1	1	0	1	1
118	0	1	1	0	1	1	1	0	170	0	1	0	1	0	1	0	1	222	0	1	1	1	1	0	1	1
119	1	1	1	0	1	1	1	0	171	1	1	0	1	0	1	0	1	223	1	1	1	1	1	0	1	1
120	0	0	0	1	1	1	1	0	172	0	0	1	1	0	1	0	1	224	0	0	0	0	0	1	1	1
121	1	0	0	1	1	1	1	0	173	1	0	1	1	0	1	0	1	225	1	0	0	0	0	1	1	1
122	0	1	0	1	1	1	1	0	174	0	1	1	1	0	1	0	1	226	0	1	0	0	0	1	1	1
123	1	1	0	1	1	1	1	0	175	1	1	1	1	0	1	0	1	227	1	1	0	0	0	1	1	1
124	0	0	1	1	1	1	1	0	176	0	0	0	0	1	1	0	1	228	0	0	1	0	0	1	1	1
125	1	0	1	1	1	1	1	0	177	1	0	0	0	1	1	0	1	229	1	0	1	0	0	1	1	1
126	0	1	1	1	1	1	1	0	178	0	1	0	0	1	1	0	1	230	0	1	1	0	0	1	1	1
127	1	1	1	1	1	1	1	0	179	1	1	0	0	1	1	0	1	231	1	1	1	0	0	1	1	1
128	0	0	0	0	0	0	0	1	180	0	0	1	0	1	1	0	1	232	0	0	0	1	0	1	1	1
129	1	0	0	0	0	0	0	1	181	1	0	1	0	1	1	0	1	233	1	0	0	1	0	1	1	1
130	0	1	0	0	0	0	0	1	182	0	1	1	0	1	1	0	1	234	0	1	0	1	0	1	1	1
131	1	1	0	0	0	0	0	1	183	1	1	1	0	1	1	0	1	235	1	1	0	1	0	1	1	1
132	0	0	1	0	0	0	0	1	184	0	0	0	1	1	1	0	1	236	0	0	1	1	0	1	1	1
133	1	0	1	0	0	0	0	1	185	1	0	0	1	1	1	0	1	237	1	0	1	1	0	1	1	1
134	0	1	1	0	0	0	0	1	186	0	1	0	1	1	1	0	1	238	0	1	1	1	0	1	1	1
135	1	1	1	0	0	0	0	1	187	1	1	0	1	1	1	0	1	239	1	1	1	1	0	1	1	1
136	0	0	0	1	0	0	0	1	188	0	0	1	1	1	1	0	1	240	0	0	0	0	1	1	1	1
137	1	0	0	1	0	0	0	1	189	1	0	1	1	1	1	0	1	241	1	0	0	0	1	1	1	1
138	0	1	0	1	0	0	0	1	190	0	1	1	1	1	1	0	1	242	0	1	0	0	1	1	1	1
139	1	1	0	1	0	0	0	1	191	1	1	1	1	1	1	0	1	243	1	1	0	0	1	1	1	1
140	0	0	1	1	0	0	0	1	192	0	0	0	0	0	0	1	1	244	0	0	1	0	1	1	1	1
141	1	0	1	1	0	0	0	1	193	1	0	0	0	0	0	1	1	245	1	0	1	0	1	1	1	1
142	0	1	1	1	0	0	0	1	194	0	1	0	0	0	0	1	1	246	0	1	1	0	1	1	1	1
143	1	1	1	1	0	0	0	1	195	1	1	0	0	0	0	1	1	247	1	1	1	0	1	1	1	1
144	0	0	0	0	1	0	0	1	196	0	0	1	0	0	0	1	1	248	0	0	0	1	1	1	1	1
145	1	0	0	0	1	0	0	1	197	1	0	1	0	0	0	1	1	249	1	0	0	1	1	1	1	1
146	0	1	0	0	1	0	0	1	198	0	1	1	0	0	0	1	1	250	0	1	0	1	1	1	1	1
147	1	1	0	0	1	0	0	1	199	1	1	1	0	0	0	1	1	251	1	1	0	1	1	1	1	1
148	0	0	1	0	1	0	0	1	200	0	0	0	1	0	0	1	1	252	0	0	1	1	1	1	1	1
149	1	0	1	0	1	0	0	1	201	1	0	0	1	0	0	1	1	253	1	0	1	1	1	1	1	1
150	0	1	1	0	1	0	0	1	202	0	1	0	1	0	0	1	1	254	0	1	1	1	1	1	1	1
151	1	1	1	0	1	0	0	1	203	1	1	0	1	0	0	1	1	255	1	1	1	1	1	1	1	1
152	0	0	0	1	1	0	0	1	204	0	0	1	1	0	0	1	1									
153	1	0	0	1	1	0	0	1	205	1	0	1	1	0	0	1	1									

IN/OUT Jumper (JU3) - When a card is presented and access is granted, this determines whether the Hub Door Control Module records the transaction as IN or OUT.
On both pins= OUT On one pin only= IN

Proximity Interface Board LEDs

LED 3: This is a bicolor LED that emulates the relay state of the Hub Door Control Module

LED 2: This is an amber LED that emulates the amber LED of the Hub Door Control Module

LED 1: This is a red LED that blinks when data is received from the Proximity Reader.
It also indicates errors using the following flash patterns:

- 1 Flash:** *Communication error* - The PROXIMITY INTERFACE Board did not receive all of the data on the PROX Card. Check the connections between the PROXIMITY INTERFACE Board and the Proximity Reader. **BE SURE TO USE SHIELDED CABLE BETWEEN THESE UNITS.**
- 2 Flashes:** *Parity Error* - This occurs when the parity of the PROX card is incorrect.
- 3 Flashes:** *Incorrect Site ID* - This occurs when the Site Number on the PROX Card does not match the Site Number set on Dip Switches 1 - 8 (This error only occurs when Dip Switch 9 set to **on**).
- 4 Flashes:** *Overflow Error* - This error occurs when a PROX card containing over 26 bits is used.

If you have any questions concerning the Installation, Application or Operation of this device please call the IEI Technical Support Line at 1-800-343-9502.



**427 Turnpike Street
Canton, MA 02021 U.S.A.**

**Phone: (781) 821 - 5566
(800) 733 - 9502 Sales in MA
(800) 343 - 9502 Sales**

FAX: (781) 821 - 4443

Visit our Web Site at www.ieib.com