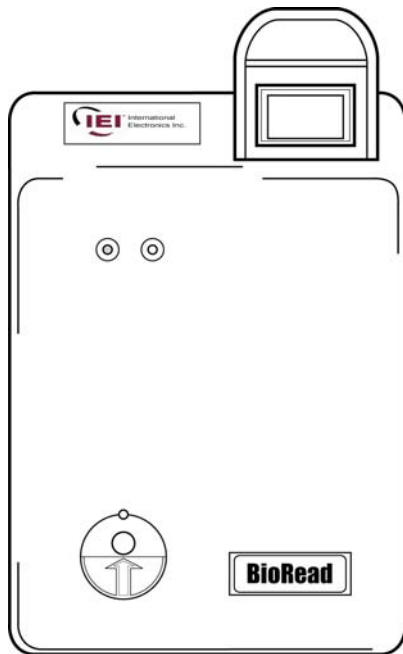




BioRead 1000 Series Installation Manual

BioRead 1000 is the only biometric with a model specifically designed for small stand-alone applications – IEI's strength in the marketplace.

Enrollment also is SIMPLE. There is no software or PC needed. A low cost hand-held programmer quickly enrolls users in a fraction of the time it takes competitive products.



BioRead 1000

Key Features

- ☐ Finger only – no card required
- ☐ No PC or software needed
- ☐ Separate door controller for increased security-stand alone applications
- ☐ 90 templates
- ☐ Add/delete with hand-held programmer
- ☐ Authenticate in less than 2 seconds
- ☐ Option for Wiegand output

Service Company Contact Information
company:
contact name:
telephone:
email:
website:

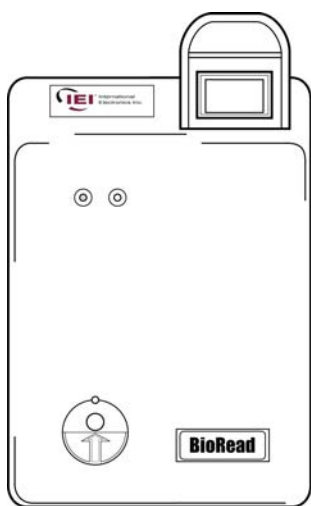
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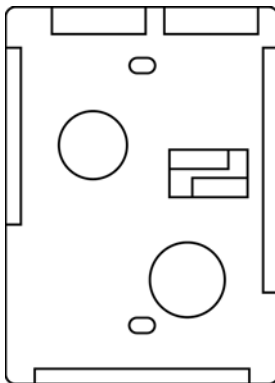
BioRead 1000 Series BR-1000 Package

Package includes:

- 1 BioRead 1000 biometric fingerprint reader
- 1 Mounting Bracket (surface-mount)
- 1 BioRead Door Controller
- 1 BioRead 1000 Hardware Pack – see below
- 1 Installation Manual



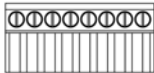


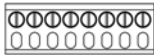


BioRead 1000
Reader



Mounting Bracket



BioRead
Door Controller

Contents of BioRead 1000 Hardware Pack	
BioRead Hardware:	
1 terminal block	
1 set screw	
1 reset key	
BioRead Door Controller Hardware:	
2 terminal blocks (1 is pre-mounted)	
2 tamper screws	
1 tamper bit	

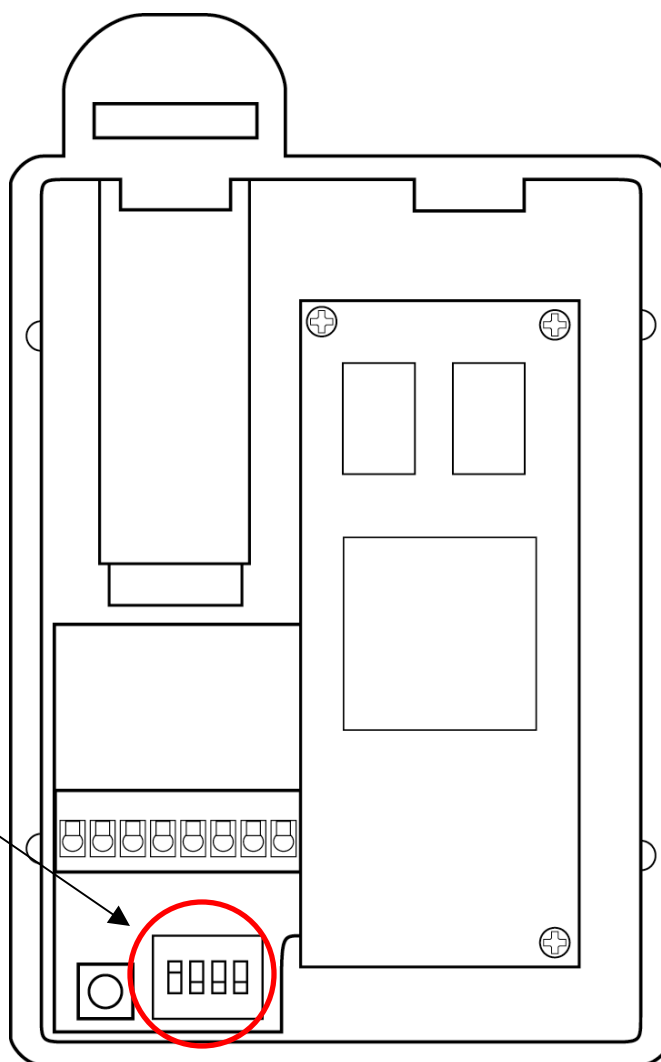
Using as a Stand Alone device (model BR-1000)

The BioRead™ fingerprint reader can be used as a stand-alone device when used with the BioRead Door Controller.

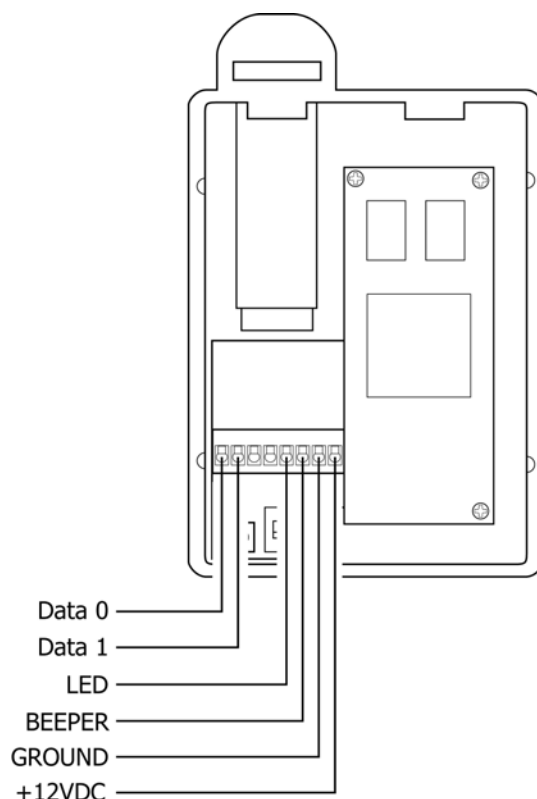
If the BioRead is being used as a stand alone device dipswitch 1 at the rear of the unit must be set to ON. Dipswitches 2-4 must be set to OFF.

See the illustration below.

***Dipswitch 1 must be set to ON when BioRead™ is used with the BioRead Door Controller.
Dipswitches 2-4 are set to OFF***



BioRead™ fingerprint reader
(rear view)



Mounting the Reader:

The BioRead Reader mounts on a single-gang electrical box.

1. Remove the screw from the bottom of the unit using a Phillips screwdriver.
2. Remove back mounting plate by pulling gently from inside the cable feed-through hole.
3. Insert the cable from the wall through the hole in the back plate, and then mount the back plate to the electrical box with the supplied screws.
4. Remove the plug-in connector from the unit and connect the cable as per wiring instructions on next page.
5. Plug the connector back into the unit.

IMPORTANT: Confirm wiring before applying power as 12VDC applied to wrong pin can damage the unit.

6. Attach the main unit to the back plate by tilting the bottom of the unit toward you, then sliding the top of the unit over the back plate.
7. Secure the main unit to the back plate with the screw removed in Step 1.

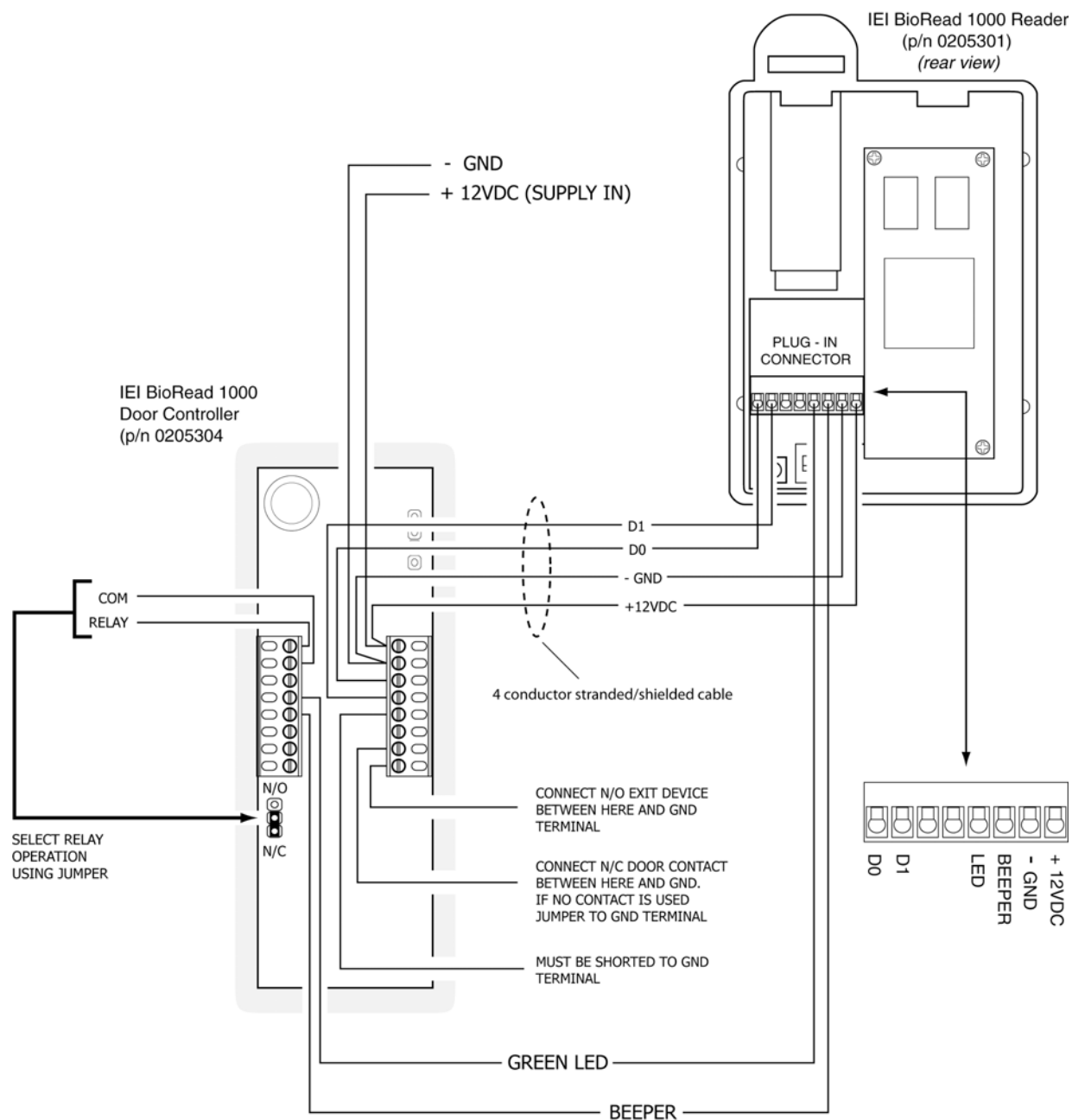
LED and BEEPER control:

The LED line is used to control the LED on the right side of the unit. This LED is normally RED and will turn GREEN when the line is pulled LOW.

The BEEPER line is used to activate the unit's internal beeper. The beeper will sound if the line is pulled LOW.

Wiring to the Stand Alone Door Controller

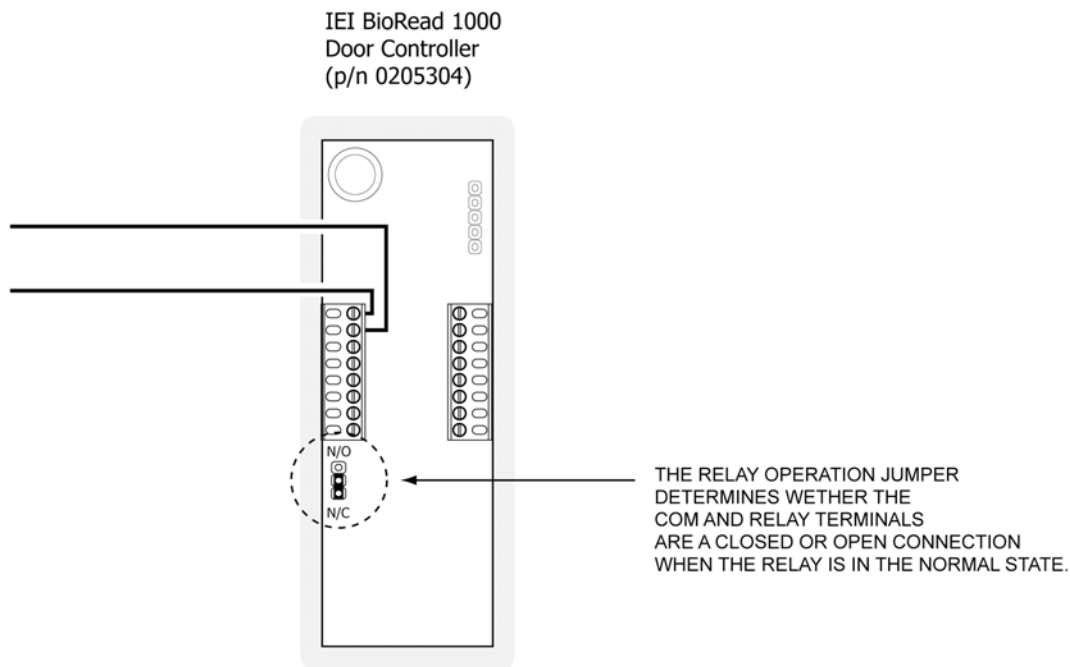
(Model BR-1000 includes reader and door controller)



Connect the BioRead to the BioRead Door Controller as shown above.

Relay Operation of the Stand Alone Door Controller

The illustration and chart below indicate how the dry-contact relay of the Stand Alone Door Controller operates. Output connection is made via the RELAY and COM screw terminals as illustrated below. The nature of the output itself is determined through a two-position jumper located on the circuit board. The chart below shows that while the COM terminal is the same in both jumper positions the RELAY terminal changes between the NO (normally-open) and NC (normally-closed) positions.

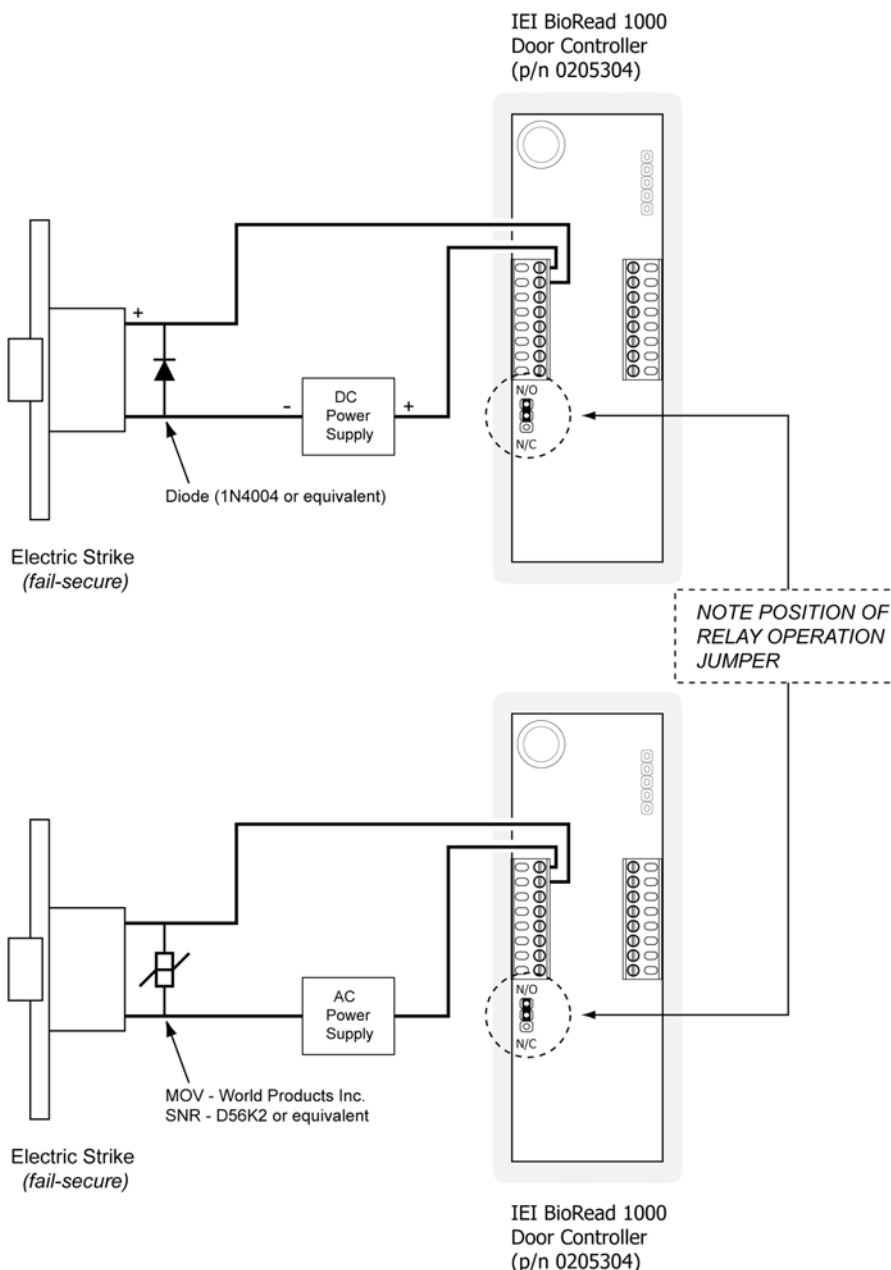


JUMPER POSITION	EQUIVALENT CIRCUIT	NORMAL STATE OF CIRCUIT	WHERE USED
<div style="text-align: center;"> N/O N/C </div>	<div style="text-align: center;"> COM TERMINAL ——— RELAY TERMINAL </div>	CLOSED	FAIL-SAFE ELECTRIC LOCKS SHUNTING NORMALLY OPEN CIRCUITS
<div style="text-align: center;"> N/O N/C </div>	<div style="text-align: center;"> COM TERMINAL ——— RELAY TERMINAL </div>	OPEN	FAIL-SECURE ELECTRIC LOCKS SHUNTING NORMALLY CLOSED CIRCUITS

Wiring the Stand Alone Door Controller to a fail-secure electric lock.

In the diagrams below is illustrated how a FAIL - SECURE electric strike is wired.

The differences between the diagrams are in the choice of voltage for the electric strike. Also, notice that each type of voltage (AC or DC) requires its own protection for inducted or transient voltage effects. In the diagram where DC is used you will find a diode and in the diagram where AC is used you will find an MOV. Whichever type of voltage you choose for the lock, do not forget to install the correct component across the voltage inputs of the lock.



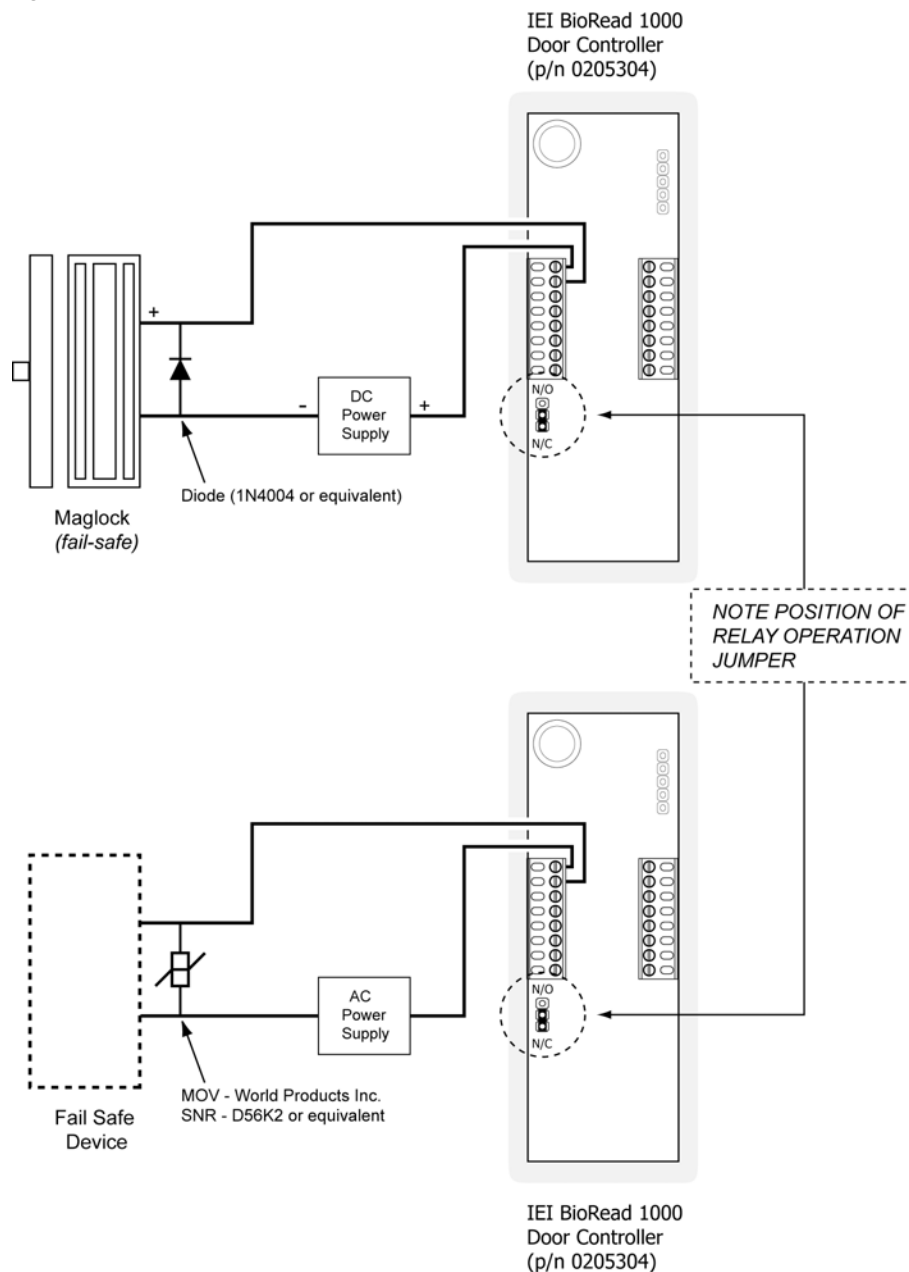
NOTE:

THE DIODE OR MOV MUST BE INSTALLED AS CLOSE TO THE LOCK AS POSSIBLE. INSTALLING THE MOV OR DIODE ACROSS THE OUTPUT TERMINALS OF THE DOOR CONTROLLER WILL NOT PROPERLY PROTECT THE BIOREAD DOOR CONTROLLER.

Wiring the Stand Alone Door Controller to a fail-safe electric lock.

In the diagrams below is illustrated how a FAIL – SAFE electromagnetic lock is wired.

The differences between the diagrams are in the choice of voltage for the electric strike. Also, notice that each type of voltage (AC or DC) requires its own protection for inducted or transient voltage effects. In the diagram where DC is used you will find a diode and in the diagram where AC is used you will find an MOV. Whichever type of voltage you choose for the lock, do not forget to install the correct component across the voltage inputs of the lock.



NOTE:

THE DIODE OR MOV MUST BE INSTALLED AS CLOSE TO THE LOCK AS POSSIBLE. INSTALLING THE MOV OR DIODE ACROSS THE OUTPUT TERMINALS OF THE DOOR CONTROLLER WILL NOT PROPERLY PROTECT THE BIOREAD DOOR CONTROLLER.

Notes:

1. The relay activation time is fixed at 7 seconds.
2. If a door contact is used, it is connected to the DC pin of the BioRead Door Controller.
3. The Door Contact will ensure that the Relay Activation Time is stopped.
4. The BioRead Door Controller turns the RIGHT LED of the BioRead reader GREEN to indicate relay activation. The LEFT LED on the BioRead turns GREEN after a valid fingerprint authentication.
5. Relay can switch up to 2A@24VDC. Do not switch high current/voltage through this relay.

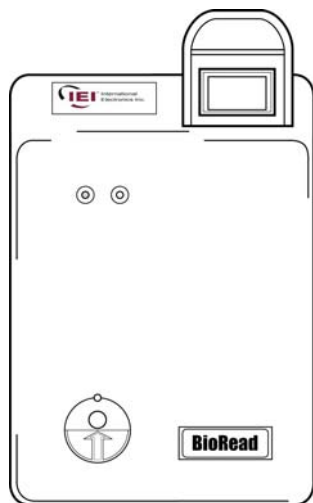
See Operator Instructions for programming BioRead with the Hand-Held Programmer.

BioRead 1000 Series

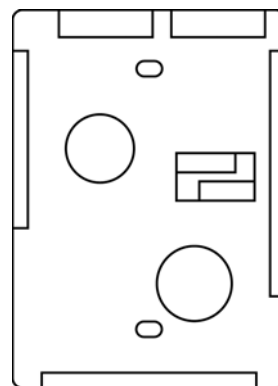
BioRead 1100 Package

Package includes:

- 1 BioRead 1000 biometric fingerprint reader 12VDC
- 1 Mounting Bracket (surface-mount)
- 1 BioRead 1100 Hardware Pack – see below
- 1 Installation Manual



BioRead 1000
Reader



Mounting Bracket

Contents of BioRead 1100 Hardware Pack

1 terminal block



1 set screw



1 reset key

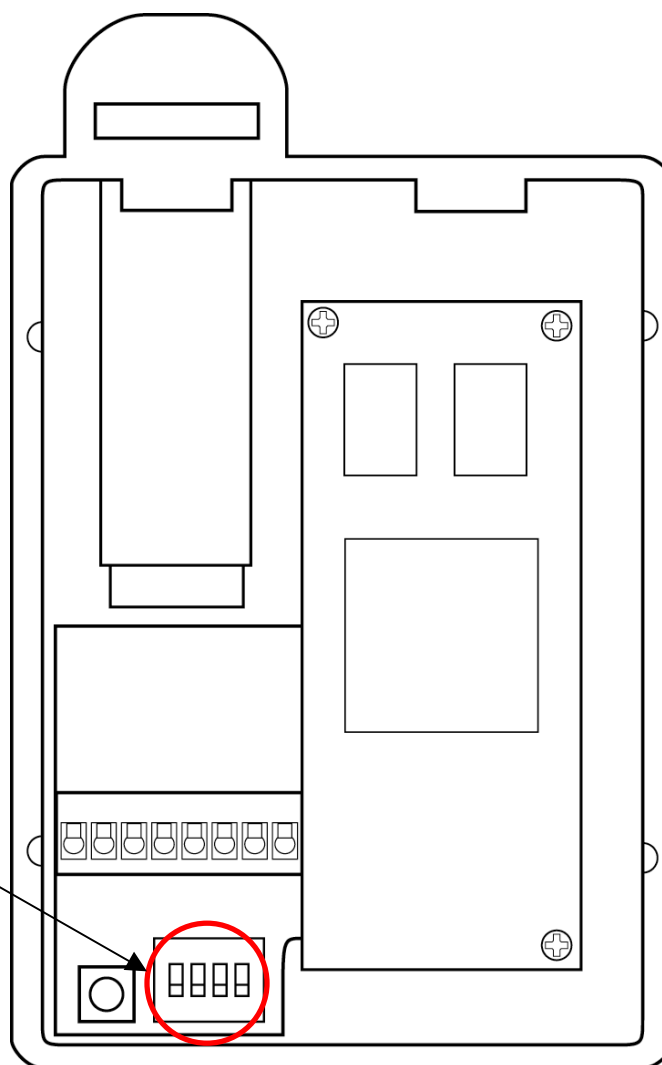


Using as a 26-bit Wiegand front-end reader (model BR-1100)

The BioRead™ fingerprint reader can be used as the front-end reader for an IEI HubMaxII, Hub MinimaxII, eMerge system or as 26-bit Wiegand front-end reader for another access control system.

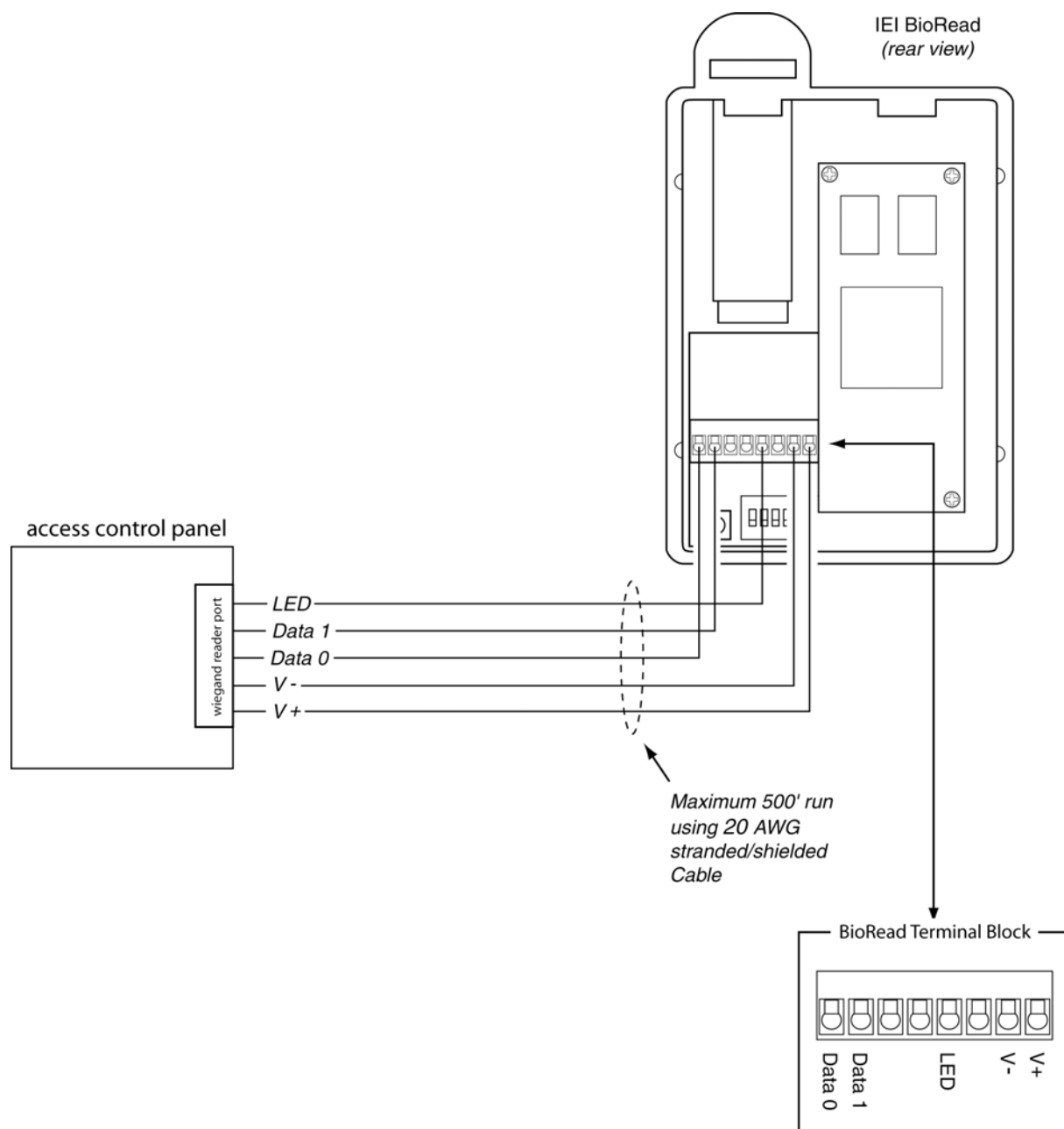
If the BioRead is being used as a front-end reader all four dipswitches at the rear of the unit must be set to OFF. See the illustration below.

All four dipswitches are set to OFF when BioRead™ is used as a 26-bit Wiegand front-end reader

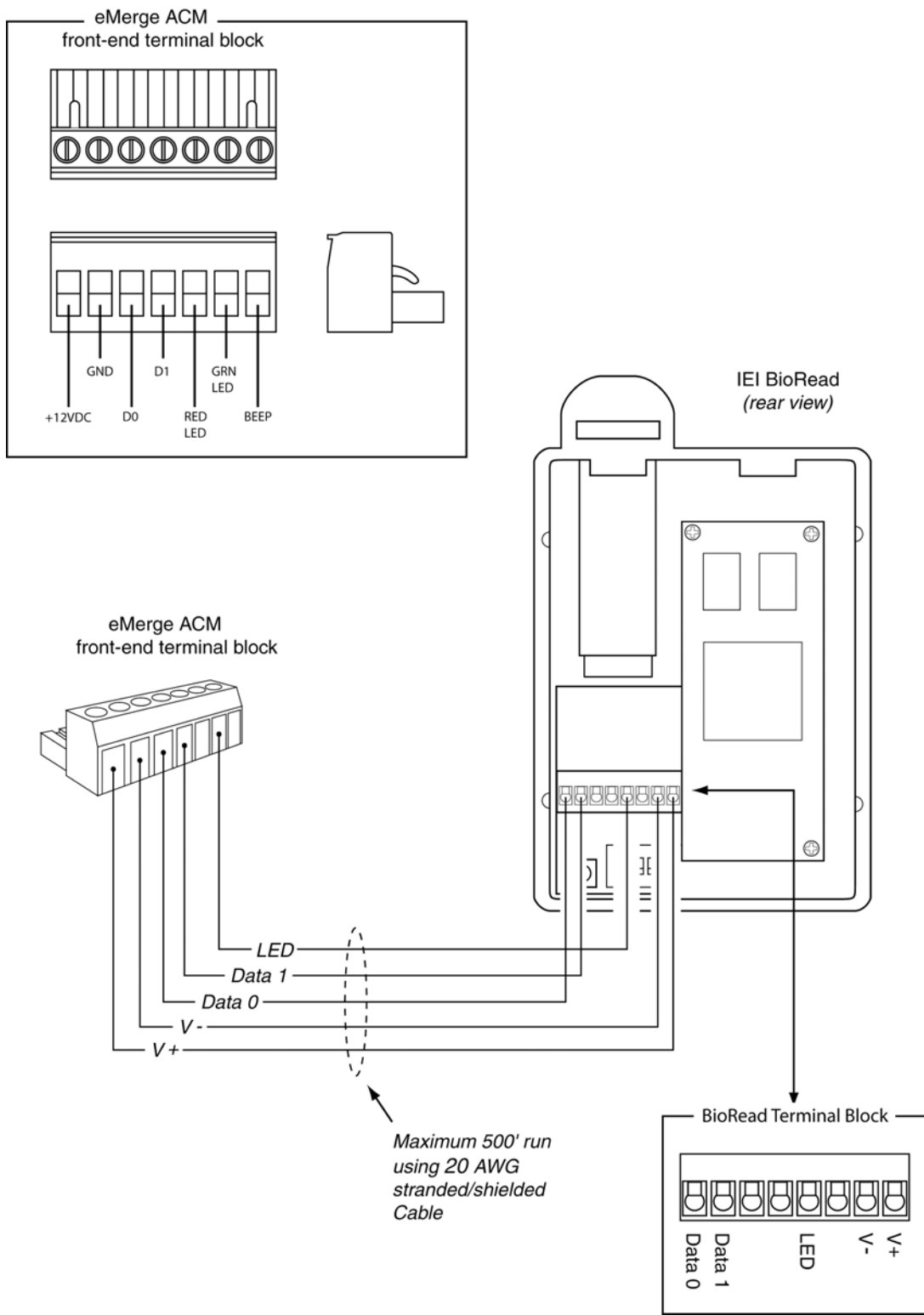


BioRead™ fingerprint reader
(rear view)

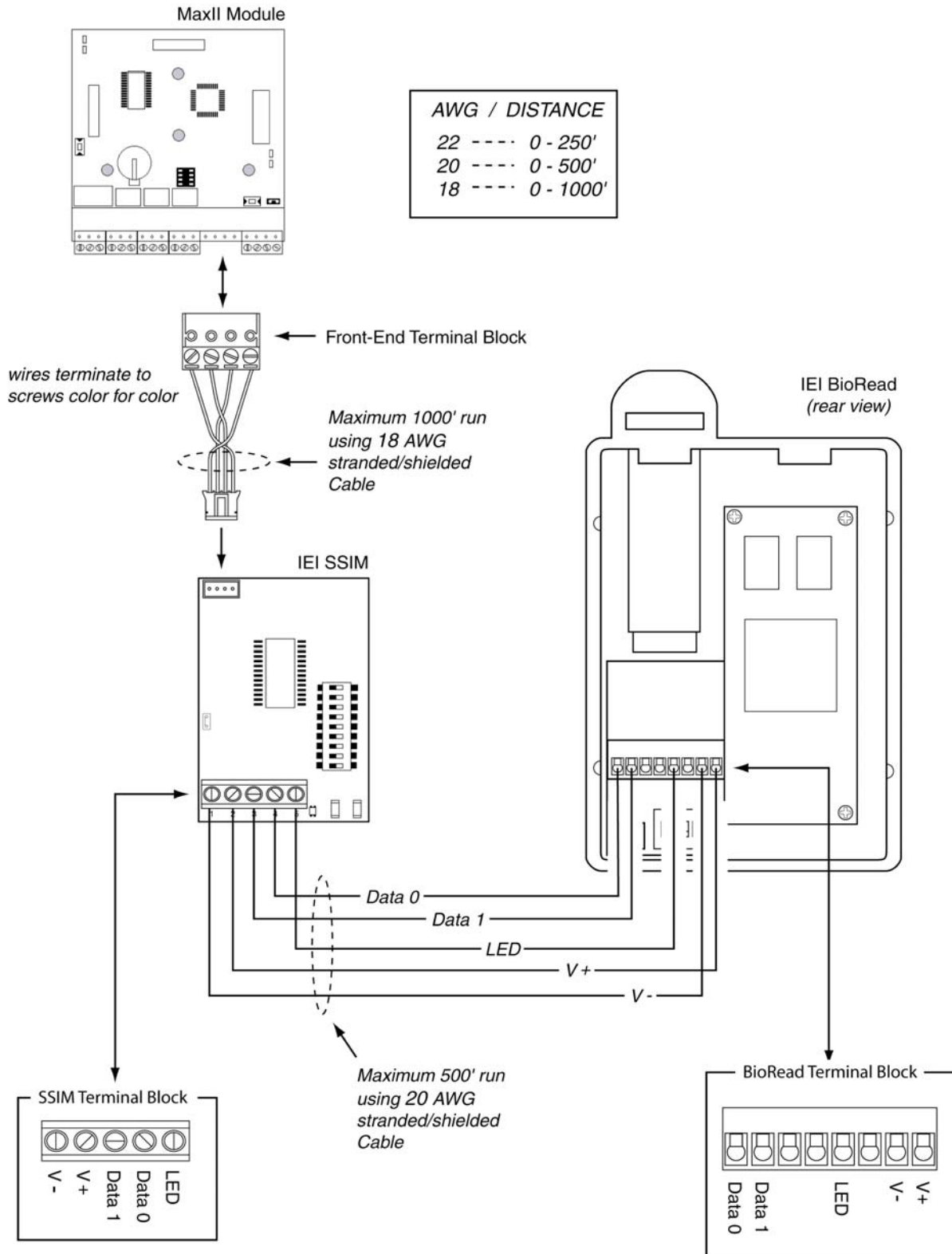
Wiring the IEI BioRead™ fingerprint reader to the front-end reader port of an access control panel



Wiring the IEI BioRead™ fingerprint reader to an IEI eMerge Access Control Module



Wiring the IEI BioRead™ fingerprint reader to a HubMaxII or MinimaxII



BioRead™ User Capacity

When a user is programmed into the BioRead, that user occupies a place in its memory known as a User Location.

The IEI BioRead has a 98 User Capacity, which breaks down as:

User Locations 1 thru 90 – fingerprint users only

User Locations 91 thru 98 – Bypass Key users only

How the BioRead™ 1000 fingerprint reader works when used as a Weigand front-end reader to an IEI eMerge system.

- If a credential is presented to the BioRead 1000, and recognized as a programmed user, the BioRead will then send the **user location number** of that credential in 26-bit weigand format through the Data 0 and Data 1.

How the BioRead™ 1000 fingerprint reader works when used as a front-end reader to an IEI MaxII system.

- The SSIM will convert the weigand data into a format that the MaxII system will work with (*known as IM FORMAT*).
- The MaxII system will interpret the data from the SSIM interface module as CARD DATA.
- This means that the User Location Number sent from the BioRead will **only** be interpreted by the MaxII as CARD DATA.

Operation Example:

1. The Right Index Finger of John Smith has been programmed into the BioRead at user location 01.
2. John Smith presents his Right Index Finger to the BioRead.
3. The BioRead recognizes John's finger.
4. This is indicated by the left hand LED on the BioRead™ turning green.
5. The BioRead sends the number 01 out the D0 and D1 data lines in 26-bit weigand format.
6. The SSIM board translates the 26-bit data from the BioRead into MaxII format.
7. The MaxII sees the CARD NUMBER 01 presented to the front-end reader port.
8. The MaxII recognizes that a CARD NUMBER and initiates an authorized access.
9. This is indicated by the right hand LED on the BioRead turning green.

This means that in order for the BioRead to work with the MaxII system:

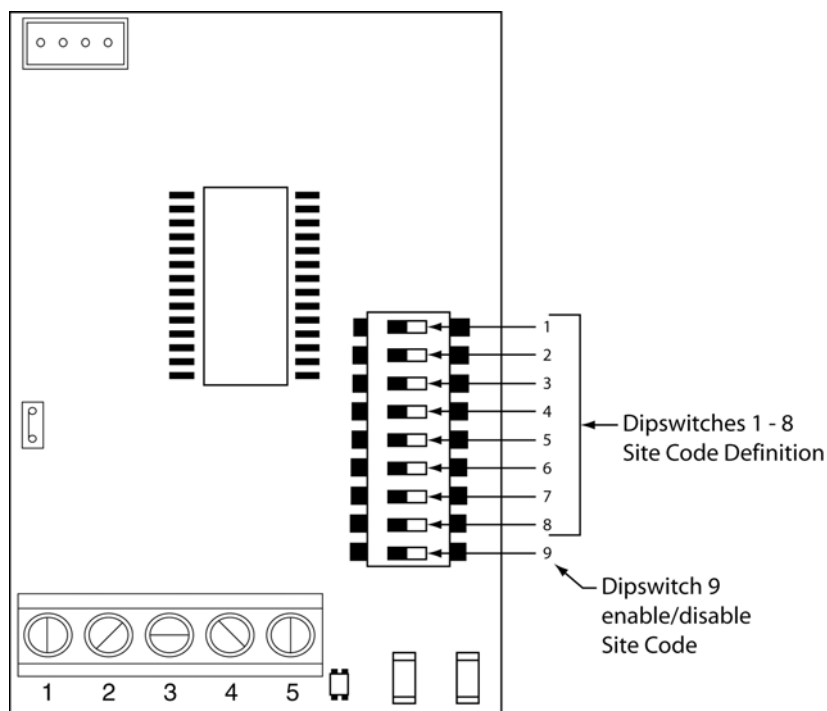
- Each user must be programmed into the BioRead, either with a fingerprint or Bypass Key.
- Each user must also be programmed into the MaxII system.
- ***Users programmed into the MaxII system must be programmed as card users, with the number of their BioRead™ Memory Slot programmed as their encoded card number.***

Setting the Site Code on the SSIM board

If you wish to employ a site code with the BioRead, remember to properly set the SSIM board by:

1. Set dipswitches 1-8 to reflect the Site Code that you defined into the handheld programmer of the BioRead.
2. Set dipswitch 9 to ON. This will enable the Site Code feature of the SSIM. If this switch is OFF there will be no Site Code verification between the BioRead and the SSIM.

The SSIM board is sold with an installation manual that also has a Site Code Chart, which translates a decimal number (like 11) into a binary number that can be set using the dipswitches on the SSIM board.



NOTE: THE SITE CODE (aka FACILITY CODE) THAT THE IEI BIOREAD USES IS THE LAST 3 DIGITS OF THE PASSWORD PROGRAMMED INTO THE HAND-HELD PROGRAMMER

SEE THE BIOREAD SETUP AND OPERATOR GUIDE (6035001) FOR INFORMATION ON SETTING UP THE HAND HELD PROGRAMMER

Dip Switch 9: If all the access media (i.e. cards/tokens) 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
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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
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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
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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
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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
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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									
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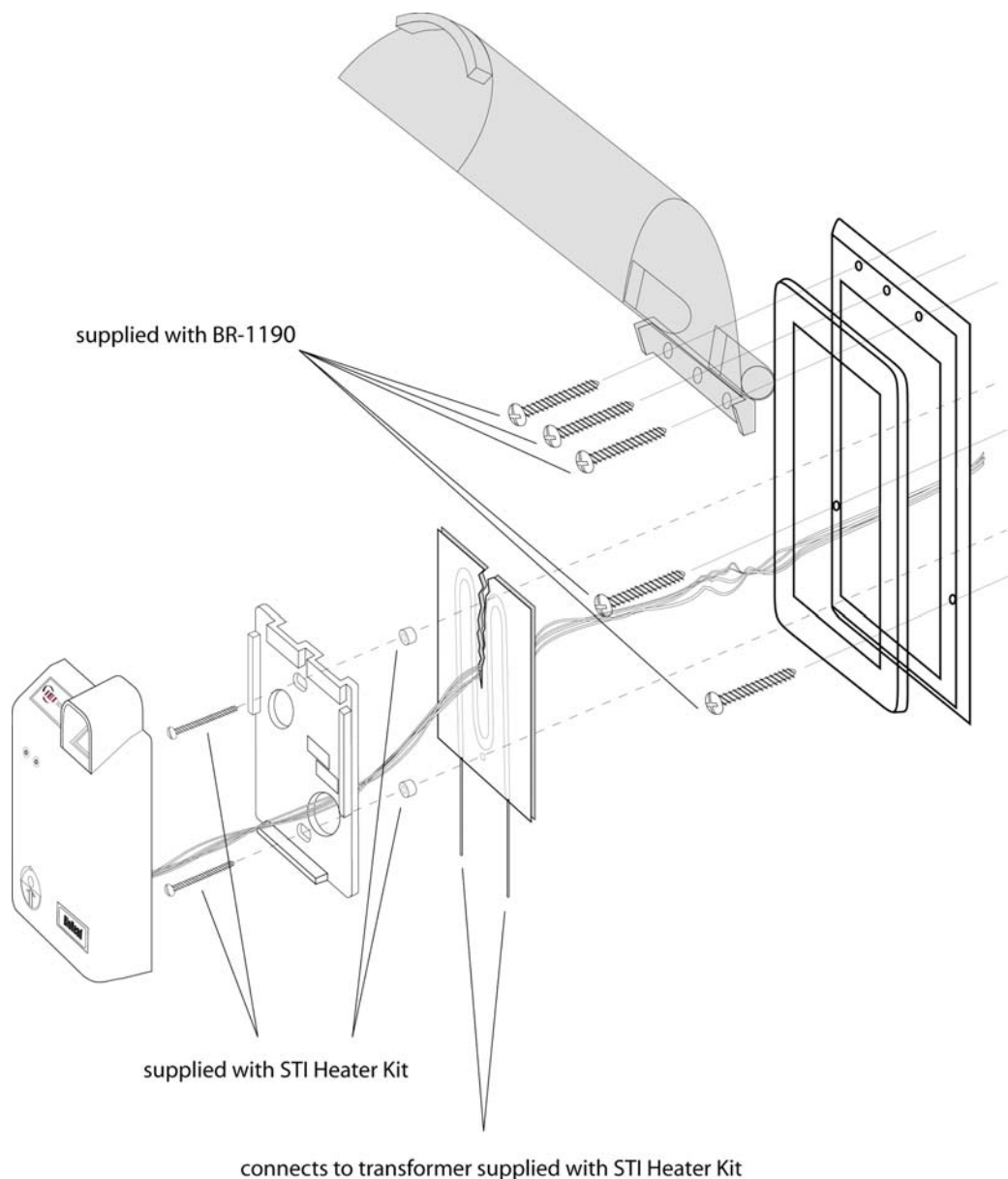


Exterior Installation

When mounting the IEI BioRead in an exterior environment the BR-1190 reader cover is required.

If the temperature is likely to drop below 40F (4C),
IEI recommends the installation of a heater kit, as shown below.
The model number of the Heater Kit is STI-6580, and is manufactured by:
Safety Technology International (STI) 800-888-4STI, www.sti-usa.com

Each of these components with is supplied with installation instructions.
The illustration below lays out the entire mounting scenario.



Specifications

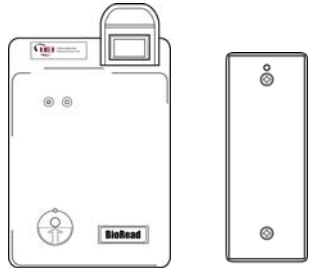
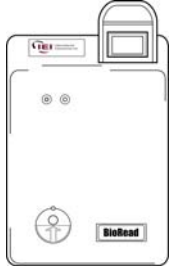

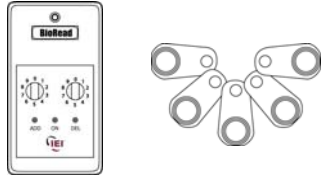


BioRead 1000 Fingerprint Reader

Electrical:	12VDC @ 300mA
Output:	26-bit Weigand
Operating Temperature:	-40F to +70F (-40C to +21C)
Size:	3 ¼" (w) X 4 ¾" (h) X 1 ½" (d)
Weight:	10 oz
Housing:	High Impact Polycarbonate
Mounting:	surface-mount to single gang electrical box
Sensor:	optical with typically <2 and up to 4 second verification with 90 users programmed
LED Indicators:	Bi-Color Standard (red, green), 1X Authentication Indicator, 1X External Control Indicator
Sounder:	used for programming feedback and can be triggered externally
Cable:	22AWG, 4 Conductor, Stranded, Overall Shield, Maximum 500 ft. to controller

BioRead 1000 Door Controller

Electrical:	12VDC @ 100mA
Output:	dry-contact relay, configured as NO or NC via jumper setting
Size:	1 ¾" (w) X" (h) X 4 " (d)
Mounting:	surface-mount
Sounder:	used for programming feedback and door ajar alarm

BioRead Access Systems

<i>Part Number</i>	<i>Description</i>	
BR-1000	<p>BioRead 1000 Fingerprint Reader and Door Controller</p> <p><i>for stand alone applications each system requires programmer</i></p>	
BR-1100	<p>BioRead 1000 Fingerprint Reader</p> <p><i>provides a 26-bit Wiegand output to an access control system each system requires programmer</i></p>	
BR-1150	BioRead Door Controller	
BR-1170	Hand held programmer with 5 bypass keys	
BR-1175	Hand held programmer	
BR-1180	Bypass Keys (5)	



Warranty Policy

International Electronics, Inc. (IEI) warrants its products to be free from defects in material and workmanship when they have been installed in accordance with the manufacturer's instructions and have not been modified or tampered with. IEI does not assume any responsibility for damage or injury to person or property due to improper care, storage, handling, abuse, misuse, normal wear and tear, or an act of God.

IEI's sole responsibility is limited to the repair (at IEI's option) or the replacement of the defective product or part when sent to IEI's facility (freight and insurance charges prepaid) **after obtaining IEI's Return Material Authorization**. IEI will not be liable to the purchaser or any one else for incidental or consequential damages arising from any defect in, or malfunction of, its products.

Except as stated above, IEI makes no warranties, either expressed or implied, as to any matter whatsoever, including, and without limitation to, the condition of its products, their merchantability, or fitness for any particular purpose.

Warranty Periods Are:

1-Year	BioRead Access Systems
1 Year	eMerge Series
2 Years	Door Gard & Secured Series Products
2 Years	LS Series
2 Years	Glass Break
5 Years	"e" Series Keypads

All products have date code labeling and/or serial number labeling to determine the warranty period.

