**DOOR & FRAME PREP**

Mark on INSIDE of door

- ø1" (25.4mm) into ø2 1/8" (6.88mm)
- ø7/8" (22.2mm) 2X
- ø7/8" (22.2mm)

**Wire Holes**

- ø1" (25mm) 2X
- ø7/8" (22mm)

**Backset From Center**

- ø1" (25mm)
- ø7/8" (22mm)

**Depth of this hole to be**

- ø3/2" (0.956"

**Memory Height from finished floor**

- ø2 1/8" (32mm)

** measure desired height from finished floor.**

**Lever Area to be**

- ø1 1/8" (29mm)
- ø1" (25mm)

**DIP SWITCH SETTINGS**

<table>
<thead>
<tr>
<th>Switch</th>
<th>Setting 1</th>
<th>Setting 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>SW2</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>SW3</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>SW4</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>SW5</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

**INSTALLATION INSTRUCTIONS**

**INTRODUCTION:**

This manual covers the complete hardware installation of the VIP5100. The VIP5100 series lock is a microprocessor controlled, electromechanical locking system. It is an open architecture product designed to interface with 3rd party panels encompassing all the features of the lock, reader, door status and egress (REX/request to exit) indication in one fire-rated piece of hardware. The VIP5100 employs a heavy-duty mechanical design tested and complying with ANSI/BHMA grade 1 standards for performance and reliability. Only four wires are required to the door - two for power and two for communications.

**Two credential types are available, prox (PX) and mag stripe (MG).** The VIP5100 is powered by 12 or 24 volts DC and may be ordered as FSA (fail safe) or FSE (fail secure). This cannot be changed in the field.

Operationally, the outside lever is normally locked and the inside lever always retracts the bolt to allow egress. Electronic access control is achieved by entering a valid "Access Credential" (magnetic stripe card or Prox chip card).

**CONNECTION TO PANELS:**

Connect to panels using RS485 if panel manufacturer allows a direct VIP connection. If not, a PIB (Panel Interface Board) must be used to wire as separate access control components.

**NOTES:**

- Illustration on pages 2 and 3 shows a LHR installation, but yours might be different.
- Key cylinder to be 1-1/8" (29mm) or longer with Schlage B502-191 or Schlage B502-948 or equivalent cam. If cylinder key does not work properly, check that cylinder and appropriate cylinder cam are installed in correct position.
- The two data wires from panel (Data-A & Data-B) must be shielded twisted pair.
- Power from panel = 1.0A@12VDC or 0.5A@24VDC

**NON-SUPPLIED TOOLS & MATERIALS NEEDED**

- Phillips head screwdriver set
- Drill bit set (up to 1")
- Magnetic reader (MG)
- Fail secure (FSE, as ordered)
- Fail safe (FSA, as ordered)
- Key cylinder to be 1-1/8" (29mm) or longer with Schlage B502-191 or Schlage B502-948 or equivalent cam.
- Loctite 242 (or equivalent)
- Square (90 degrees)
- Magazine tape
- Center punch
- Hammer
- Chisel
- Level

**BLOCKING RING TABLE**

<table>
<thead>
<tr>
<th>Key Cylinder Length</th>
<th>Blocking Ring (Schlage P/N: XXX)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/4&quot; (32mm)</td>
<td>1/8&quot; [3mm] (36-079-012-XXX)</td>
</tr>
<tr>
<td>1-3/8&quot; (35mm)</td>
<td>1/4&quot; [6mm] (36-079-025-XXX)</td>
</tr>
<tr>
<td>1-1/2&quot; (38mm)</td>
<td>3/8&quot; [10mm] (36-079-037-XXX)</td>
</tr>
<tr>
<td>1-5/8&quot; (41mm)</td>
<td>1/2&quot; [13mm] (36-079-050-XXX)</td>
</tr>
</tbody>
</table>

This device complies with part 15 of FCC rules. Operation is subject to following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including any interference that may cause undesired operation. Changes or modifications not expressly approved by party responsible for compliance could void user’s authority to operate equipment.

**VIP5100 CYLINDRICAL SERIES (Hardwired)**

Schlage Lock Company
575 Birch Street
Firesville, CT 06010
technical support: 866-322-1237
tel: 800-565-2136
web: http://www.schlage.com
1 - Insert D (beveled side * towards B), secure with E.
2 - Install Door Status Monitor (DSM):
   > Insert F into 1”[25mm] dia. hole in frame.
   > Thread connector (G) through hole in door edge and out through wire hole.
   > Press H into 3/4”[19mm] hole in door edge.
3 - Install Key Cylinder (I) (refer to DETAIL D-A):
   > If I is longer than 1-3/4”[44mm], slide J over I (refer to BLOCKING RING TABLE on page 1).
   > Insert I into K.
   > Slide L over I.
   > Using M, screw N onto I until tight.
   > Line up nearest notch on N with tab on L.
   > Bend tab on L into notch of N.
4 - If changing the Handing, (refer to DETAIL D-B):
   > Remove: O, P, Q, R (use 5/32”[4mm] hex wrench), and S.
   > Rotate S 180 degrees, slide back onto shaft.
   > Apply threadlocker to R and reinstall.
   > Verify that dot (T) is at bottom.
   > Install round end of Q into U.
   > Reinstall P so that jaws will face D.
   > Reinstall Q.
   > Inside escutcheon - repeat with R and S as above.
5 - Verify that key cylinder is functional.
6 - Mount Outside Escutcheon (Z):
   > If installed, remove V and W.
   > Install X.
   > Apply sticky side of Y to Z (thread Aa thru hole in Y).
   > Doors thinner than 1-3/4”[44mm], use Optional Spacer A.
   > Thread Aa thru wire hole in door.
   > Press Z to outside of door.
   > Refer to DETAIL D-C, and verify Ba engages with Ca.
   > Install W and V.

CONTINUED FROM PAGE 2
7 - Install Inside Baseplate Assembly (Da):
   > Doors thinner than 1-3/4”[44mm], use Optional Spacer B.
   > Press Da to inside of door, secure with Ea & Fa.
   > Insert Ga into U (beveled corners towards door).
8 - Making connections to the Baseplate Assembly (Da):
   IMPORTANT: Power to be off while making connections.
   > Refer to DETAIL D-D, and plug Aa into Ha.
   > Connect the 4 wires on Ia to Ja (connect Ground first).
   NOTE: Insulate shield wire from parts with tape or tubing.
   > Connect G to Ka.
   NOTE: Route Aa, Ia, and G under La as in illustration.
   > Connect Ma to Na (use care not to pinch wires).
   > Set dipswitch (Qa). Settings on page 4.
9 - Install Inside Escutcheon.
   > Place Pa over Da (verify Ga engages lever cam).
   > Secure Pa with Qa.
   NOTE: Refer to DETAIL D-E if Qa are spanner head screws (use tool Ra).

INSTALLATION OF HARDWARE COMPLETE