**VIP993 SERIES EXIT TRIM**

(Hardwired)

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**DOOR & FRAME PREP (LHR prep is shown)**

**TRIM SIDE**

**SECTION A-A**

**DEVICE SIDE**

NOTE: For retrofit applications, all existing trim and exit device hardware must be removed.

NOTE: Only dimensioned holes are required for retrofit trim.

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**TEST TRIM**

1. Depress exit device pushpad.  
   - Result: Latch(s) should retract.
2. Turn cylinder key CCW until key stops.  
   - Result: Latch(s) should not retract.
   - Result: Latch(s) should retract.
4. Turn cylinder key CW until key stops.  
   - Result: Latch(s) should not retract.
5. Press lever down & release.  
   - Result: Latch should not retract.
6. Present valid credential.  
   - Result: Latch should retract.
7. Press lever down & release.  
   - Result: Latch should retract.
   - Result: Latch should retract.

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**DIP SWITCH SETTINGS**

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* VIP Protocol: For use with PIB or SRCNX
* RSI Protocol: For use with RS485 connection to partner panels or bright blue
* InterFlex Protocol: For use with InterFlex

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**INSTALLATION INSTRUCTIONS**

INTRODUCTION:

This manual covers the complete hardware installation of the VIP993 Series line of open architecture trim. The VIP993 is compatible with Von Duprin exit devices: 98/99, 9827/9927, 9847/9947, 9848/9948, and 9857/9957.

Operationally, the outside lever is normally locked and the exit device allows free egress. Access is achieved by presenting a valid credential. Two credential types are available, price (IPX) and mag stripe (MS). The VIP 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. The VIP993 series lock is a microprocessor controlled, electro-mechanical locking system which bolts on to new or existing Von Duprin 98 & 99 rim and vertical rod exit devices. It is an open architecture product designed to interface with 3rd party control panels encompassing all the features of the lock, reader, door status and egress (request to exit) indication in one piece of hardware. Only four wires are required to the door - two for power and two for communications. For door status indication, a door switch (included) must be installed. For REX (Request To Exit), the Von Duprin exit device must be equipped with the exit indication switch (order a RX-LC9899 exit device or Von Duprin PIN S1-LC for an aftermarket application) and a pair of wires (included) must be run from the switch to the VIP993. The RTR (Request To Access) option provides indication at the panel if the mechanical key is used.

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. Only four wires are required to the door side.

Notes:

- Illustration on pages 2 and 3 shows a LHR installation, but yours might be different.
- For 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.
- Do not overtighten fasteners.
- The tab on the spindle, which engages the exit device latch head, is sized for optimal performance in most installations. Older exit devices may have cams which are smaller and do not allow the spindle to fit. In these cases, tab may be filed to fit cam. Don't over-file or full bolt retraction will be lost.

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**BLOCKING RING TABLE**

<table>
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<tr>
<th>Key Cylinder Length</th>
<th>Blocking Ring (Schlage P/N: XXX-finish)</th>
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<tr>
<td>1-1/4&quot; (32mm)</td>
<td>1/8&quot; (3mm) (36-079-012-XXX)</td>
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<tr>
<td>1-3/8&quot; (35mm)</td>
<td>1/8&quot; (3mm) (36-079-025-XXX)</td>
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<tr>
<td>1-1/2&quot; (38mm)</td>
<td>3/8&quot; (10mm) (36-079-037-XXX)</td>
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<tr>
<td>1-5/8&quot; (41mm)</td>
<td>1/2&quot; (13mm) (36-079-050-XXX)</td>
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</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.
After door & frame preparation, refer to illustration on right & assemble lock components onto door & frame in following order:

1 - To install Key Cylinder (A) (refer to DETAIL D-A):
   - If A is longer than 1-1/8"[29mm], insert B into C  
     (refer to BLOCKING RING TABLE on page 4).
   - Insert A into C.
   - Slide D over A.
   - Using E, screw F onto A until tight.
   - Line up nearest notch on F with tab on D.
   - Bend tab on D into notch of F.

2 - If changing the Handing is necessary, refer to DETAIL D-A and do the following:
   - Using a 5/32"[4mm] hex wrench, remove G.
   - Remove H, rotate 180 degrees, slide back on shaft.
   - Apply threadlocker to G, reinstall G.

3 - Preliminary Test of Trim (refer to DETAIL D-A):
   - Insert key into A and turn CW (this engages A).
   - Rotate H down.
   - RESULT: I must rotate as H is rotated.

4 - To install Stop Screw (J) (refer to DETAIL D-A):
   - With A engaged (see above), rotate H down & hold.
   - Install J into proper hole (LHR or RHR).
   - RESULT: H should not rotate up from horiz. pos.

5 - Refer to DETAIL D-B and verify K is installed in L.

6 - Refer to DETAIL D-C, D-D, & D-E, feed N & X thru M.

7 - Feed N & X thru hole in door.

8 - To install Trim (C):
   - Apply sticky side of O to C.
   - Install R into C.
   - Feed N & X through hole in C.
   - Place C on door (Q gets inserted into I).
   - Install each S into each R.

9 - To install DSM (V):
   - Feed wires (U) through door as in illustration.
   - Press V into hole in edge of door.
   - Press W into corresponding hole in frame.

10 - Refer to DETAIL D-H and make wire connections.

CONTINUED ON PAGE 3...

...CONTINUED FROM PAGE 2

11 - REX switch connection: Inside of M, connect switch-S1 black and white wires to blue & yellow wires (polarity is unnecessary).

NOTE: If S1 is not used, see info supplied with panel to set up door zone without a REX/legal egress input to avoid a fault condition.

12 - Place Y & Z against C, secure with Aa & Ba.

* Disregard washer Aa if it was not included in original installation.

INSTALLATION OF HARDWARE COMPLETE.