Installation Manual: PC-4DB, PC-6DB Detector Base

NOTICE TO THE INSTALLER

This manual provides an overview and the installation instructions for the PC-4DB and PC-6DB detector bases. These products are designed for 2-wire conventional fire alarm system, and they shall only be installed with listed control panels. For system compatibility, please refer to the control panel instruction manual.

1. Description

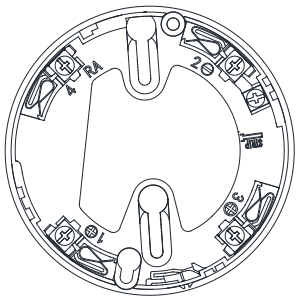
The PC-4DB and the PC-6DB are mounting bases designed to work specially with the PC-2P, PC-2PN, PC-2PH and PC-2H detectors. The PC-4DB has a four (4) inch diameter and the PC-6DB has a six (6) inch diameter. Both products provide multiple mounting options to accommodate different UL listed junction boxes. The bases have a locking feature to allow tamper-proofing to prevent unwanted removal. Refer to the company website for the latest revision of this manual.

2. Technical Specifications

	PC-4DB	PC-6DB
Installation Temp Range	32°F – 120°F	
Operating Humidity Range	0% - 95% (Non-condensing)	
Dimension	Φ3.93 in	Φ 6.3 in
Weight	1.34 oz	3.03 oz
Height	0.76 in	0.76 in
Acceptable Wire Gauge	22 to 12 AWG	
Mounting Options	3-1/2” octagon, 4" octagon, 4” square with plaster ring, 50mm c/c, 60mm c/c and 70mm c/c boxes	3-1/2” octagon, 3-1/2” square, double gang, 4" octagon, 4” square, 50mm c/c, 60mm c/c and 70mm c/c boxes

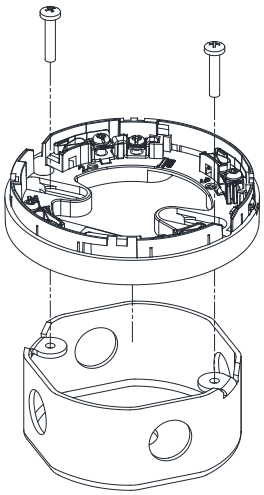
3. Mounting

1. Loosen screws, but not all the way out, from junction box.
2. Align keyholes on the base with screw heads.
3. Slide screw to the slot on the mounting plate.
4. Tighten screw to secure base.
5. Snap screw hole covers on the base (for PC-6DB only).

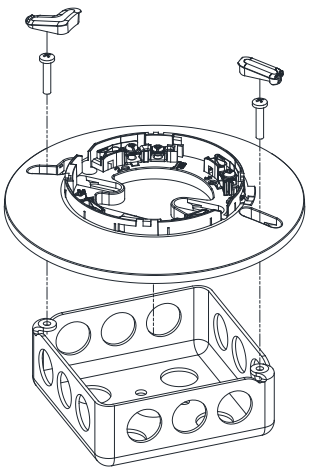


1. + IN
2. -
3. +OUT
4. RA+

Terminal Layout



PC-4DB



PC-6DB

4. Wiring

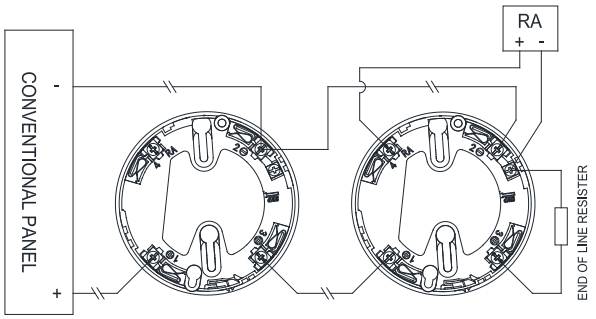
1. Before connecting a device to the control panel, take the following precautions to prevent potential damage to the device.
   - Power to the control panel is removed.
   - Field wiring on device is correctly installed on the base (supplied separately). Beware of the polarity marked next to the terminals. + is positive and - is negative, RA+ is for the remote indicator positive.
   - Use wires between size 22 AWG to 12 AWG
   - Strip all wires 1/4 inch from their edges shown here:
   - Field wiring has no open or short circuit.

2. Plug sensor on base and turn clockwise to secure in place. Refer to section 5 for detail of the locking feature.

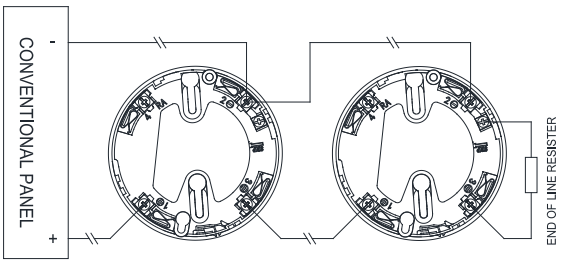
⚠ CAUTION :DO NOT LOOP WIRE AROUND TERMINAL. SEPARATE WIRES TO ALLOW FOR CONNECTION SUPERVISION.

The product may be installed as Class B or Class A. The typical field wiring diagrams are shown as below.

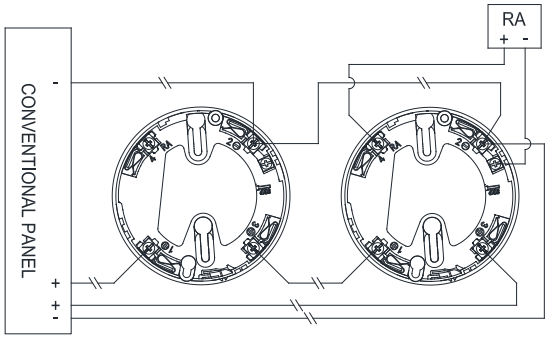
CLASS B WIRING WITH REMOTE ANNUNCIATOR:



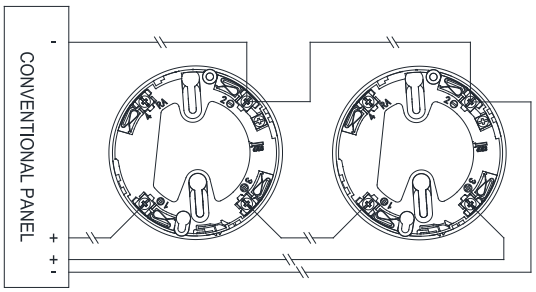
CLASS B WIRING WITHOUT REMOTE ANNUNCIATOR:



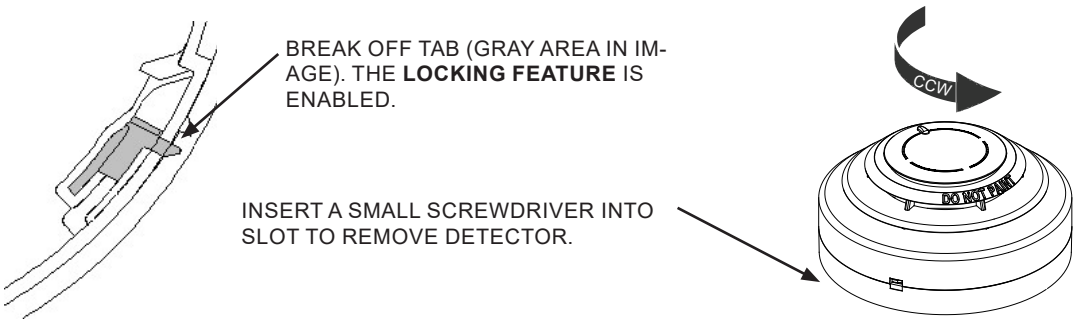
CLASS A WIRING WITH REMOTE ANNUNCIATOR:



CLASS A WIRING WITHOUT REMOTE ANNUNCIATOR:



5. Locking Feature



6. Maintenance

Consult your local code and AHJ requirements for required maintenance schedules.
These instructions do not cover all the details or variations in the equipment described, nor provide for every possible contingency to be met in connection with installation, operation, and maintenance. Specifications subject to change without prior notification.

7. Warranty

POTTER warrants that the equipment herein shall conform to said descriptions as to all affirmation of fact and shall be free from defects of manufacture, labeling, and packaging for a period of five (5) years from the invoice date to the original purchaser, provided that representative samples are returned to POTTER for inspection. The product warranty period is stated on the exterior of the product package. Upon a determination by POTTER that a product is not as warranted, POTTER shall, at its exclusive option, replace or repair said defective product or parts thereof at its own expense, except that Purchaser shall pay all shipping, insurance, and similar charges incurred in connection with the replacement of the defective product or parts thereof. This Warranty is void in the case of abuse, misuse, abnormal usage, faulty installation, repair by unauthorized persons, or if for any other reason POTTER determines that said product is not operating properly as a result of causes other than defective manufacture, labeling, or packaging.