

Blow-Open Control Box

Model 7949/ES 7949



Installation Instructions

For Auto-Equalizer & Regular Control Box information, see installation instruction sheets packed with those products.

① NOTE: The 7949 blow open control box is designed to assist in smoke evacuation from fire alarm systems with a normally closed dry contact output. Blow open installations are not listed under section GVEV of the UL *Building Materials Directory*. The 7949 blow open control boxes are assembled with UL recognized components, it should NOT be used on fire rated doors as described in GVEV of the UL *Building Materials Directory*.



System Function

The 7949 series Blow-Open Box is designed for work witha 7901 or 7902 series closer control box and one or more LCN Auto-Equalizer(s) door closer. When power supply to the unit is interrupted by a smoke evacuation system, the 7949 Blow-Open Box overrides the closer control box, opening door(s) with the Auto-Equalizer(s) to allow fresh air into the building. This system is NOT to be used on fire rated doors.

Installing the Blow-Open Box

- 1. Locate box within 5 feet of 7900 series control box. It must be mounted in a clean, dry place where temperatures do not exceed 120°F or fall below 35°F.
- 2. Mount box to a structurally sound surface using screws provided, with air fittings on left side, as shown on page 4. Do not mount box upside down or horizontally.
- 3. Refer to closer control box instructions and actuator switch instructions. Connect switch leads to proper terminals in the closer control box at this time.
- 4. Connect all air lines to both boxes per required installation (see page 2 for options).
- 5. Connect non-powered 120 VAC line to terminals located in Blow-Open Control Box. If an electronic strikes or latching devices are being used, refer to teh ES7949 box diagram.
- 6. Turn on power to both boxes. Valves will cycle once when power is applied. After cycle is complete, turn on air supply to both boxes.
- 7. Set air pressure at 80 psi in both boxes. Turn regulator knob clockwise to increase pressure, counter-clockwise to decrease pressure. Cycle once with manual override and readjust air pressure if necessary.
- 8. Test actuator switches to ensure wiring and tubing are properly connected.
- ③ System Note: A minimum five second delay (by others) is required BEFORE smoke evacuation blowers start to allow doors to sufficiently begin to open.

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