Flair Smart Vent Installation Guide: Wiring

24VAC Optional Power Port
Use with: 20AWG Plenum Rated Solid 2 Conductor Wire
@24VAC: less than 1mA continuous, max 50mA
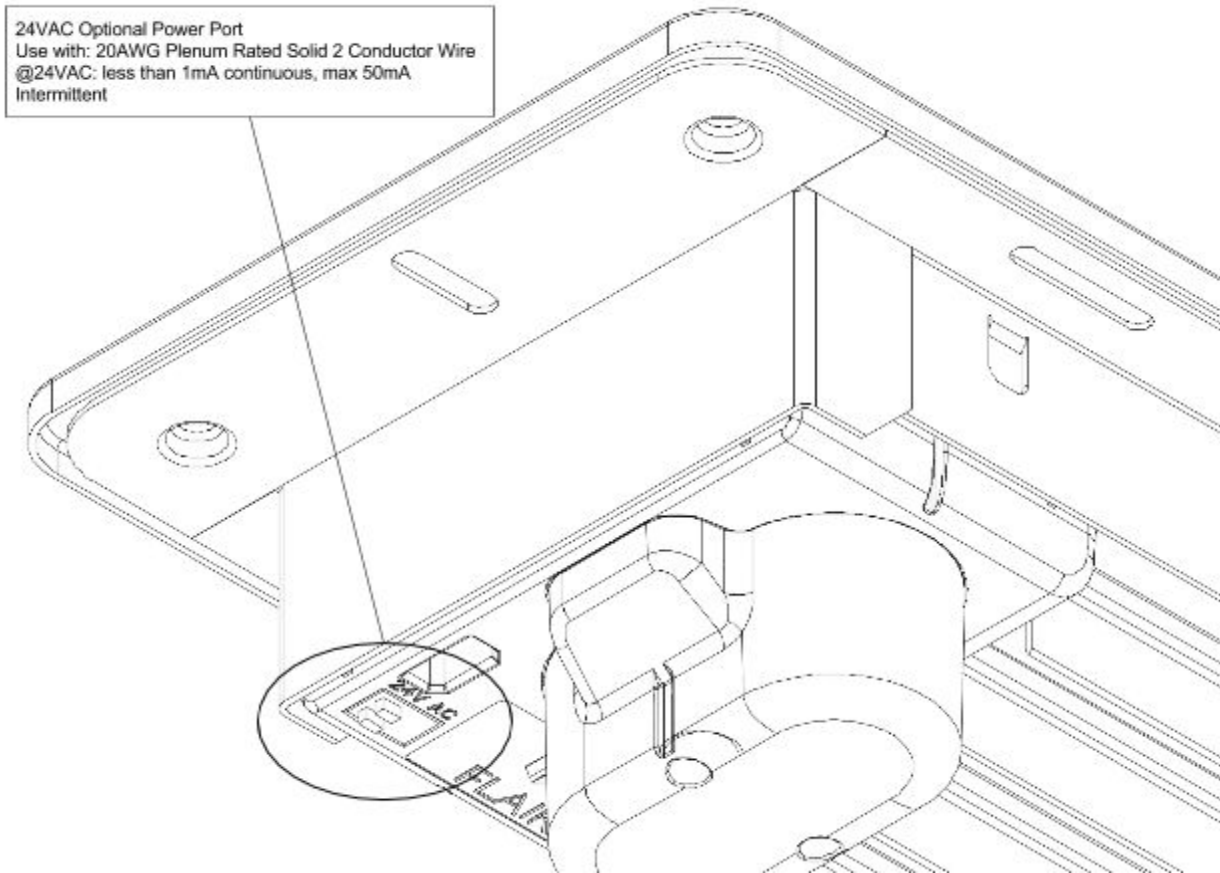Intermittent

Installation:

1. Drill hole in boot or duct near vent, where convenient. Hole size should be large enough for 20AWG Plenum Rated Solid (2 Conductor) wire.
2. Slide 20AWG Plenum Rated Solid (2 Conductor) wire through hole into boot.
3. Pull enough through to to reach back of vent (boot dependent) - if you pull some extra, you can trim it later. When pulling the wire through, be careful to avoid stripping the wire on the metal boot or duct as this could lead to a short.
4. Using high quality Duct Tape or Mastic, seal the hole around the wire and the hole in the duct or boot.

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5. Strip insulation and insert each conductor into the 24VAC port on back side of Flair Smart Vent (either wire can go in either hole, polarity does not matter).
6. If there is excessive wire in the boot or duct, trim the wire repeat step 5. Ensure that the wire doesn't interfere with the louvre movement. Also ensure the two wires are fully separated and cannot short near the vent terminal block. In case of excess exposed wire at the vent terminal block, press the release buttons on the terminal block and pull the wire out. Trim exposed wire as needed and reinsert.
7. Connect other end of wire to a 24VAC transformer/power supply (note that you will not need to wire to the ground pin/terminal if one is available).
8. Assemble battery related parts on vent according to regular installation process - there is no need to install the actual batteries.
9. Continue with regular installation and setup process.
10. Plug in or power 24VAC power supply/transformer.

Electrical Notes:
- Flair Vents operate with very low power requirements and operate at different times hence a 40VAC (@24VAC) will suffice for in excess of 10 vents. Beyond 10 Vents, it is recommended that you consider additional power supplies due to the length of the wire runs becoming very long.
- Grounding is not needed.

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