**INSTRUCTIONS**

1. Use this detail in buildings without a Fire Alarm System & new HVAC systems.
2. Place and install Duct Smoke Detector in accessible locations, if required.
3. Fire Alarm System must be in use. Use this detail when no Fire Alarm System is present.
4. Use 4" square deep box with a terminal strip. Use #14 wire stranded where possible.
5. Interface box should be close to motor starter or temperature control panel.
6. Paint interface box exterior and cover red and blue; Fire Alarm System must be in use.
7. Use 2-#14 wire from F1 to H2. Use 2-#14 wire from H2 to F1.
8. Use 4-#14 wire from F1 to H2. Use 4-#14 wire from H2 to F1.

**DETAILS**

- **DUCT SMOKE DETECTOR INSTALLATION DETAIL**
  - Interface Box Detail
  - Interface Box Wiring Detail
  - Interface Circuit Layout

- **REFERENCE NOTES**
  1. Part of motor starter.
  2. Part of HVAC system.
  3. Present only when required by HVAC design.
  4. Install jumpers from F1 to F2.
  5. Duct detector provided and installed by the Mechanical/temperature control contractor.

- **GENERAL NOTES**
  A. Use this detail in buildings without a Fire Alarm System & new HVAC systems.
  B. Present number of conductors dependent on future fire alarm system.
  C. Use 2-#4 wire from F1 to H2. Use 4-#14 wire stranded where possible.
  D. Interface box should be close to motor starter or temperature control panel.
  E. Paint interface box exterior and cover red and blue; Fire Alarm System must be in use.
  F. Place and install duct smoke detector in accessible locations, if required.

- **INTERCONNECTION DETAIL WHEN NO FIRE ALARM SYSTEM IS PRESENT**
  Future duct smoke detector interface connection to temperature controls.

**CONTACT AUXILIARY INSTRUCTIONS**

- **WIRING BY TEMPERATURE CONTROL SYSTEM CONTRACTOR.**
- **WIRING BY FIRE ALARM SYSTEM CONTRACTOR.**
- **INSTALL JUMPER FROM F1 TO H2.**
- **PRESENT ONLY WHEN REQUIRED BY HVAC DESIGN.**
- **PART OF TEMPERATURE CONTROL/FAN SYSTEM.**
- **PART OF TEMPERATURE CONTROL PANEL.**
- **PART OF FAN STARTER SYSTEM ARE PERFORMED.**
- **HANDLING IS INSTALLED, OR WHEN MAJOR UPGRADES OF AN EXISTING SYSTEM ARE REQUIRED.**
- **USE THIS DETAIL: IN BUILDINGS WITHOUT A FIRE ALARM SYSTEM & NEW AIR TO BE USED.**
- **EXACT NUMBER OF CONDUCTORS DEPENDENT ON FUTURE FIRE ALARM SYSTEM HALF IS RED, TEMPERATURE CONTROL SIDE IS BLUE.**
- **PAINT INTERFACE BOX EXTERIOR AND COVER RED AND BLUE; FIRE ALARM SYSTEM MUST BE IN USE.**
- **PLACED AND INSTALLED DUCT SMOKE DETECTOR IN ACCESSIBLE LOCATIONS, IF REQUIRED; COMPLIANCE WITH SMOKE DETECTOR MANUFACTURER S SPECIFICATIONS.**
- **INTERFACE CIRCUIT LAYOUT**
- **INTERFACE BOX WIRING DETAIL**
- **REFERENCE NOTES**
  1. Part of motor starter.
  2. Part of HVAC system.
  3. Present only when required by HVAC design.
  4. Install jumpers from F1 to F2.
  5. Duct detector provided and installed by the Mechanical/temperature control contractor.