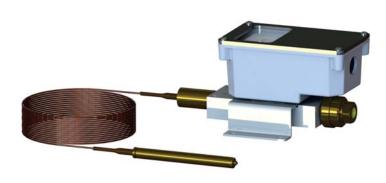


MODEL SERIES 2TCB SF₆ Gas Density Switch Bulb Design

- Temperature range -40°F-140°F
- NEMA 4X (IP65) housing
- Up to four SPDT contacts
- Bulb design temperature sensor



*Shown with integral gauge face

GENERAL DESCRIPTION

- Designed to measure SF6 gas density in all highvoltage circuit breaker applications
- · Cast-aluminum housing
- Bulb design senses temperature change; indicating loss of gas
- Low-maintenance
- Accommodates a wide temperature range
- Phosphor bronze bellows
- Available with optional integral gauge, which features clear, visual indication of the gas density

SPECIFICATIONS

Switching

2, 3, or 4 SPDT snap acting switches

Electrical Connection

Screw terminal block (3mm / #6 ring terminal)

Switch Contact Ratings

2A; 125, 250 VAC

Setpoint Adjustment

Factory set per customer specifications

Temperature Range

-40°F to 140°F Ambient Standard (Wider ranges are available)

Accuracy (Standard)

± 1.5 PSI at 70°F

± 2 PSI at temperature extremes 140°F to -40°F

Deadband (Switch Differential)

Fixed; 1-6 PSI Typical

Pressure Sensing Element

Phosphor Bronze or Stainless Steel Bellows - 100% leak inspected with Helium mass spectrometry to 6 X 10-8 cc/sec.

Pressure Adjustment Range

5-100 psi

Maximum pressure 150 psi

Pressure Port

1/4 NPTF or 7/16-20 SAE are standard; Other port options are available.

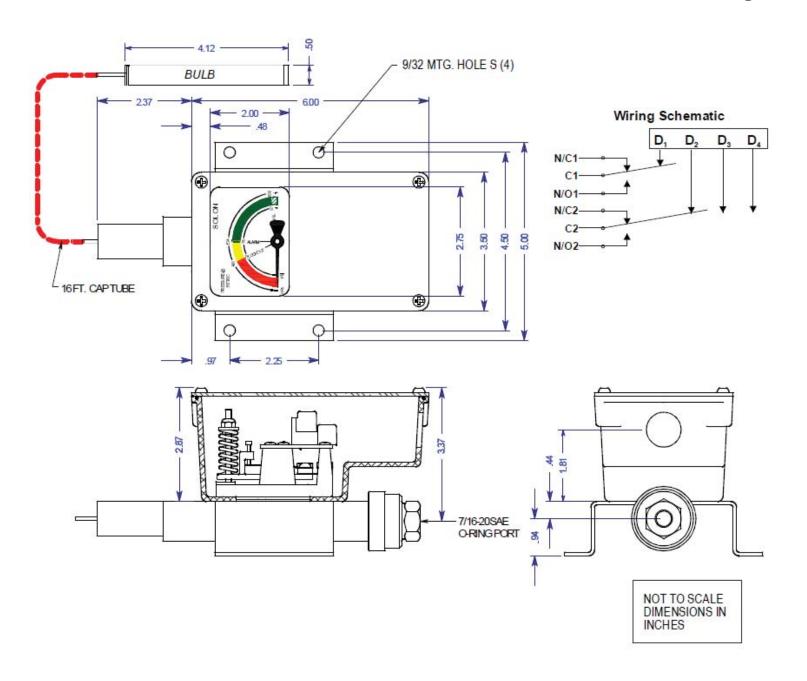
Enclosure (Optional)

Diecast aluminum

Weight

Approximately 5 lbs. (2.27 kg)

SWITCH DIMENSIONS



SPECIFYING A SWITCH

- 1. Specify the set points for each switch. Set points should be given at room temperature (68F) and at either of the temperature extremes.
- 2. Designate the pressure port fitting.
- 3. Choose the type of electrical connection;
 - * Screw terminals or,
 - * Prewired Color coded 18 GA. MTW, 18" Lg.
- 4. Describe other requirements such as special testing, labeling, tagging, packaging, etc.
- 5. Once a switch is specified and an order is placed, Solon Mfg. Co. will assign a "slant number" (2TC/XXX) to the switchThis ensures that the fit, form, and function of the device will not change.

INSTALLATION NOTES

Orientation - The 2TC will operate satisfactorily in any position.

Location - The bulb should be installed where it will follow the temperature of the SF_6 gas (out of direct sunlight.) The location of the switch housing does not effect performance. **Wiring -** Switches may be wired to 'normally open' or 'normally closed' terminals of the switch contacts. **Adjustment -** Factory setting to customer specifications is standard. Consult factory for field calibration instructions.

