Using solid state technology, the Series 3000MR and 3000MRS Photohelic® switch/gages combine the functions of a precise, highly repeatable differential pressure switch with a large easy-to-read analog pressure gage employing the durable, time-proven Magnehelic® gage design. Switch setting is easy to adjust with large external knobs on the gage face. Gage reading is unaffected by switch operation — will indicate accurately even if power is interrupted. Solid state design now results in greatly reduced size and weight. Units can be flush mounted in 4-13/16" (122 mm) hole or surface mounted with hardware supplied. 3000MR models employ versatile electromechanical relays with gold over silver contacts — ideal for dry circuits. For applications requiring high cycle rates, choose units can be flush mounted in 4-13/16˝ (122 mm) hole or surface mounted with hardware supplied.

**INCLUDED ACCESSORIES**

- (4) 6-32 HOLES
- (4) 6-32 x 1-1/4˝ RH machine screws
- Mounting ring, snap ring
- (2) 1/8˝ female NPT high pressure connections
- (2) 1/8˝ female NPT low pressure connections
- 18˝ (46 cm) cable assembly with 6 conductors, optional lengths to 100´ (30.5 m)
- Electrical Connections: 18˝ (46 cm) cable assembly with 6 conductors, optional lengths to 100´ (30.5 m)
- Tamper-proof Knobs, requires spanner type key (supplied) to change setpoints. Add suffix -TAMP
- Weatherproof Housing Option. Add suffix -WP
- A-600, R/C Snubber recommended for inductive loads like a solenoid or contactor
- A-370, Mounting Bracket for flush mounting 3000MR/MRS. Bracket is then surface mounted. Steel with gray hammertone epoxy finish
- A-298, Flat Aluminum Bracket for flush mounting 3000MR/MRS bracket. Bracket is then surface mounted. Steel with gray hammertone epoxy finish
- A-600, R/C Snubber recommended for inductive loads like a solenoid or contactor
- NIST traceable calibration certificate, add suffix -NIST to model numbers. Example: 3001MR-NIST

**SPECIFICATIONS**

**GAGE SPECIFICATIONS**

- **Service:** Air and non-combustible, compatible gases.
- **Wetted Materials:** Consult factory.
- **Accuracy:** ±2% of FS (3000-0 ±3% of FS).
- **Pressure Limit:** -20˝ Hg, to 25 psig (-0.677 bar to 1.72 bar). MP option; 35 psig (2.41 bar), HP option; 80 psig (5.52 bar).
- **Temperature Limits:** 20 to 120°F (-6.7 to 48.9°C).
- **Process Connections:** 1/8˝ female NPT (duplicated side and back). Size: ≥ 4˝ (101.6 mm) dial face, ≥ 5˝ (127 mm) OD x 3-1/8˝ (79.38 mm).
- **Weight:** 1.8 lb (816 g).

**SWITCH SPECIFICATIONS 3000MR**

- **Switch Type:** Each setpoint has 1 form C relays (SPDT).
- **Relay Contacts:** (Resistive load) 1 form C rated 1.0A @ 30 VDC, 0.5A @ 110 VDC or 0.25A @ 125 VAC. Gold over clad silver - suitable for dry circuits. Electrical Connections: 18˝ (46 cm) cable assembly with 6 conductors, optional lengths to 100´ (30.5 m).

**Switching Voltage:** 20-280 VAC (47-63 Hz).
- **Switching Current:** 1.0 amp (AC) max., 0.01 mA (AC) min., (2) SPST NO.

**Electrical Connections:** 18˝ (46 cm) cable assembly with 6 conductors, optional lengths to 100´ (30.5 m).

**Power Requirements:** 24 VDC, regulated ±10%.

**Mounting Orientation:** Diaphragm in vertical position. Consult factory for other position orientations.

**Set Point Adjustment:** Adjustable knobs on face.

**Agency Approvals:** CE.