



Series VPS Valve Position Sensor

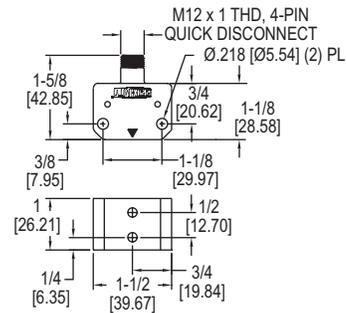
Specifications - Installation and Operating Instructions



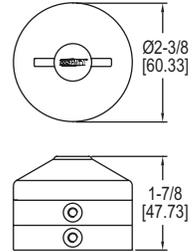
VPS2411



P1



VPS2411



P1

The dual inductive, 2-wire AC/DC Series VPS Valve Position Sensor maintains VDI/VDE 3845 dimensions so positioners can be easily mounted on top of the sensor and target. The Model VPS2411 Sensor and Model P1 Target mount easily and directly to actuators with ISO-NAMUR topworks (see picture below). Fully adjustable target in 2° increments, the sensor has two independent LED's and bright Flow Line indicator that provide local visual indication. All electrical connections are made with the Model VIP82 4-pin quick disconnect cable (6 ft. in length) for ease in installation. Solid state components are fully embedded in an epoxy resin to prevent condensation build-up and to protect against vibration and shock. The rugged PBTP housing provides excellent corrosion resistance and moisture protection.



Two VPS2411 and one P1 shown mounted with W.E. Anderson pneumatic actuator and positioner.

SPECIFICATIONS

Power Requirements: 20-140 VAC (50/60 Hz) 10-200 VDC.

Output Operation: Dual normally open.

Load Current: ≤200 mA.

Minimum Load Current: 5 mA.

Leakage Current: ≤0.8 mA.

Voltage Drop: ≤5.0 V.

Repeatability: ≤0.01 mm.

Hysteresis: 3-15% of sensing range.

Switching Frequency: 25 Hz.

Temperature Limits: -13°F to 176°F (-25°C to 80°C).

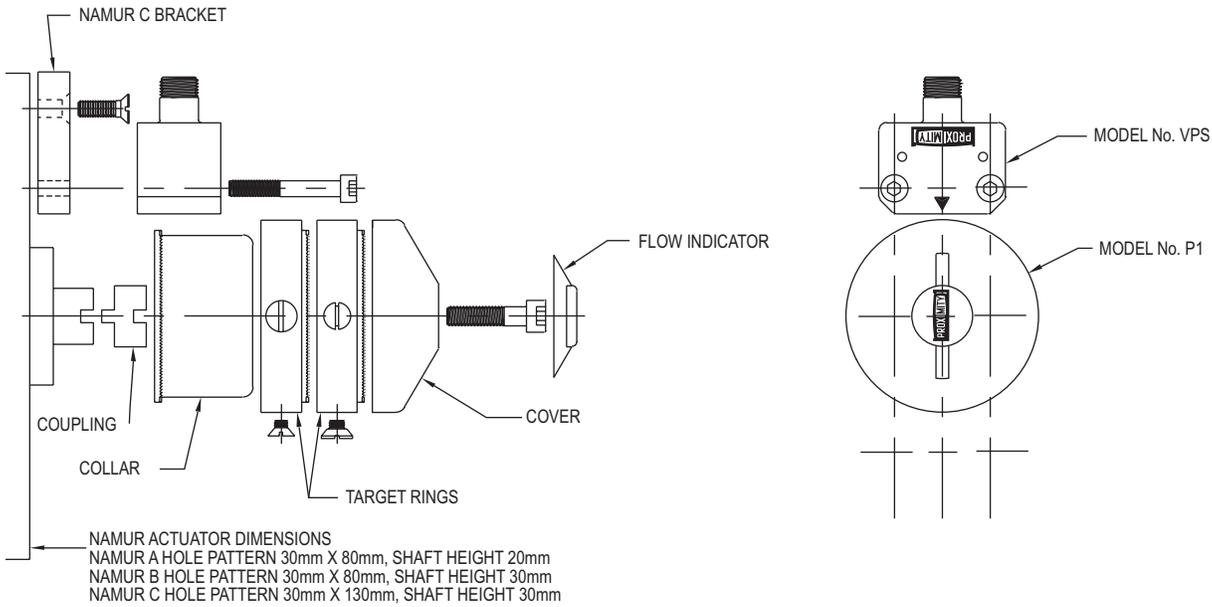
Housing Material: Polybutylene Terephthalate (PBTP).

Electrical Connection: M12 4-Pin Quick Disconnect (Order Model VIP82 for 6' Long Mating Cable).

Mounting Holes: NAMUR Mounting 3.15" x 1.18" (80 x 30mm) or 5.12 x 1.18 (130 x 30mm).

Models: Model VPS2411 - Valve Position Sensor, Model P1 - Valve Position Target, VIP82 - Quick Disconnect Cable, 6 ft. long.

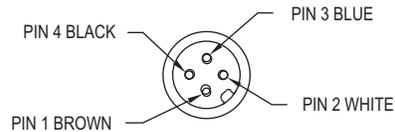
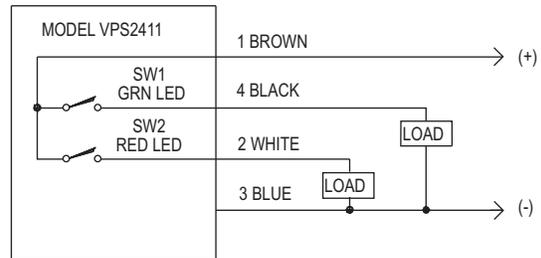
INSTALLATION DRAWING



INSTALLATION PROCEDURE:

1. Fasten the Series VPS to the actuator with the appropriate fasteners (M5, 10-24, 10-32). For Namur C actuators you must first attach the Namur C bracket to the actuator.
2. Attach the coupling to the actuator shaft for Namur A & C actuators only.
3. Attach the collar to the actuator shaft or coupling.
4. Install one stainless steel flat head screw (two if it is a dual sensor installation) into each of the target rings and plug the other holes with the plastic screws or plugs. Slide the target rings over the collar and adjust as appropriate for open and closed position. **Note:** Bottom target energizes the red LED and the top target energizes the green LED.
5. Place the cover onto the top target being careful to align for proper flow indication and secure with M6 x 16 fastener for Namur B actuators or M6 x 25 fastener for Namur A & C actuators.
6. Insert flow indicator to complete assembly or install coupling to maintain VDI/VDE 3845 dimensions if accessories such as a positioner are to be installed.

WIRING DIAGRAM



HOUSING CONNECTOR

NOTE:

1. WIRE COLORS ARE FOR VIP82 QUICK DISCONNECT CABLE

MAINTENANCE

The unit requires no routine maintenance or lubrication. The unit is not repairable.



This symbol indicates waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.