PULSAR

PULSAR*point*

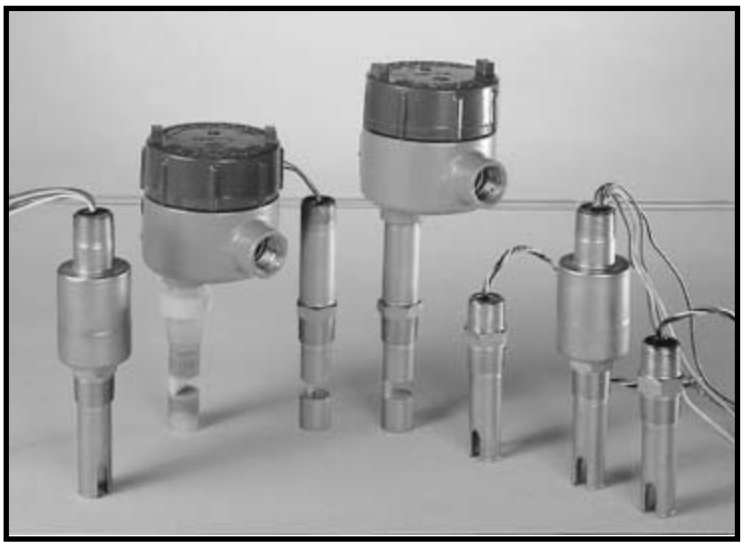
400 series

400 series

ultrasonic gap switches

Description

The Pulsar*point* 400 series of point level measurement systems combine all of the advantages of advanced, state of the art miniaturized and encapsulated ultrasonic technology, and the finest quality 316 stainless steel welded construction. Series 400 is designed to provide highly reliable, fixed-point liquid level indication with a repeatability of 2mm or better, in a wide range of measurement applications. All versions are solid state and therefore require no maintenance and provide many years of trouble free operation.



Application

Pulsar*point* 400 is offered in a variety of configurations to suit mounting arrangements, output requirements and a wide variation in liquid viscosity. Where very arduous conditions exist, units can be supplied in alternative materials of constructions such as Teflon, Kynar, Monel or Hastelloy. High temperature and cryogenic versions are also available.

Standard versions operate at the following temperatures:

Electronics -22˚F to +176˚F

Sensor -31˚F to +194˚F, and up to a pressure of 65bar

Special versions are available for process temperatures of -299˚F to +752˚F

Typical Applications

- Over-fill protection
- Low level alarm
- High level alarm
- Leak detection
- Pump protection
- Hydraulic supply lines
- Sewage and clean water treatment

Operation

The sensor is mounted in the vessel to be monitored at the appropriate indication point. The Pulsar*point* 400 utilizes continuous ultrasonic wave propagation technology, detecting the transition of ultrasonic sound waves from a transmitter to a receiver when the sensor is submerged. The absence of liquid in the sensing area causes the ultrasonic signal to dissipate which the unit senses as a dry condition. Outputs can be selected to indicate either state.

Features and Benefits

- Rugged and highly reliable
- Supplied as standard with all stainless steel wetted parts
- Non-mechanical, no moving parts, therefore no maintenance
- Various output signals, to indicate 'wet' or 'dry' conditions
- Simple to install
- Highly reliable and repeatable to 2mm or better
- AC, DC or loop powered versions are available
- High temperature, cryogenic, Teflon and other special versions are also available
- Customized stem lengths can be manufactured to order

Pulsar*point* 404 high performance point level switch.

Specifying information and wiring diagrams are available on request from Pulsar

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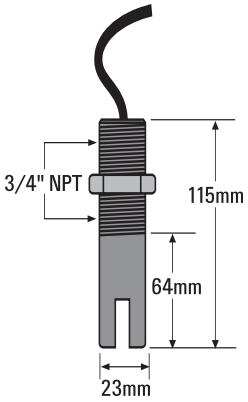
Technical Specification: Pulsar*point* 400 series

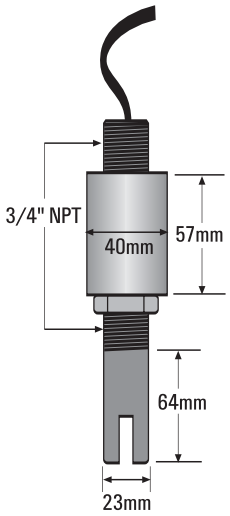
Pulsar*point* 400

- Low cost, tip sensitive switch
- 3/4" NPT connection
- 316 Stainless Steel
- DC power supply
- Output: 1 amp relay (NO) or (NC) please specify. mA or transistor output versions are also available
- Standard cable length 1 ft, other lengths available to order



Pulsar*point* 402

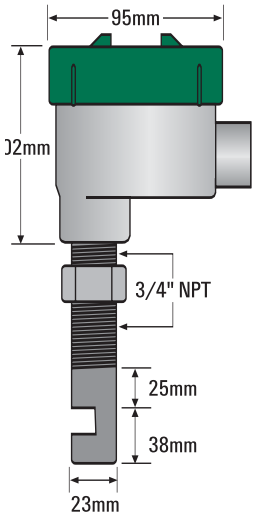
- Tip sensitive switch
- 3/4" NPT connection
- 316 Stainless Steel
- 115 Vac power supply
- Output 10 amp relay (NO) or (NC) please specify
- Standard cable length 1ft, other lengths available to order
- Also available with an additional temperature switch output



- All units can be custom ordered for: lengths, power, outputs, materials of conversion, temperature, etc.

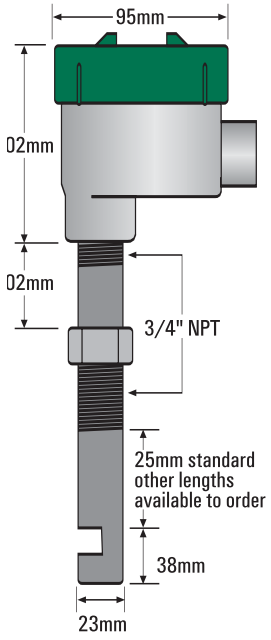
Pulsar*point* 404

- A high performance switch capable of reliable operation even in viscous liquids
- 3/8", 1/2", or 3/4" NPT available
- AC, DC or loop powered versions
- Output: 10 amp DPDT relay
- 316 Stainless Steel
- Available in Teflon or Kynar or other special materials
- Maximum process temperature of sensor is up to 302˚F as standard
- Available with a manual or continuous self test facility
- Dual point or multi-point versions are also available



Pulsar*point* 405 - HT

- High temperature version of the type 404
- 3/4" NPT connection
- AC or DC versions
- Output 10A SPDT relay 4-20mA version also available
- Maximum process temperature of sensor: 316SS version up to 536˚F, Titanium version up to 752˚F



Represented by

Our policy is one of constant development and improvement. Pulsar reserves the right to amend details as necessary.

dc versions are CE approved

ISO 9002 REGISTERED COMPANY
Certificate No: 950136
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