AMETEK®

DREXELBROOK®

DATA SHEET

VeriGAP™ 504-1000 Series

Line Powered Ultrasonic Gap Switch

Guaranteed Safety

Verify™ circuitry checks that the complete system (crystals, crystal bonding, electronics and relay) is functioning correctly.

No Calibration Required

No opportunity for error in calibration or adjustments in gain controls.

Local Control

This line-powered version of the 504 Series gap switch has its 5A DPDT relay where you need it...built into the unit and close to pumps, valves, horns and other final control elements.

Wide Range of Applications

Performance is unaffected by changes in liquid density, pressure, or electrical properties.

Major Breakthrough

The VeriGAP level switch is the only safe gap switch available for high level alarming or indication. All other gap switches are inherently low level fail safe only. With most low-level fail-safe devices, either an absence of material or a component failure will indicate a low level alarm. With most high level fail-safe devices, the presence of material will only trigger an alarm if the system is functioning properly. A component failure, such as separation of the crystals, will cause the device to indicate an absence of material. This will result in a normal condition, even if the tank is over filling.

Outperforms Generic Gap Switches

VeriGAP overcomes the problems inherent in genric gap switches by testing the entire system (crystals, crystal bonding,electronics and relay) on demand, eliminating the possibility of a spill. Unlike other gap switches with so-called self-testing features, the VeriGAP requires no calibration. This eliminates the potential for error or spills during installation and setup.

Ideal for Liquid Measurement

The VeriGAP is ideal for high and low point level measurements in liquids. It is not affected by variations in viscosity, density, pressure, temperature, or electrical properties.

VeriGAP™ 504-1000 Series

Specifications

Electronics Model # 404-1000-9

Input Power:
120Vac +/- 20% (240Vac or 24Vdc +/-6V opt.)

Level Output:
DPDT relay

Contact Ratings:
120Vac: 6A resistive, 4.4A inductive, 1/6HP
240Vac: 6A resistive, 4.9A inductive, 1/3HP
30Vdc: 6A resistive
Min. Rating 100mA / 12VDC

Max. Cont. Carrying Current
7A

Operating Temperature*:
-40ºF to 160ºF (-40ºC to 70ºC)

Fail-Safe:
High or low level (field-selectable)

Repeatability:
1/16 inch (1.59 mm)

Response Time:
2 seconds

Housing:
Nema 1-4X, 5 and 12

Area Classifications:
Groups A,B,C,D, Class I, Div. 1 or 2. Groups E,F,G, Class II, Div. 1 or 2

RFI Effect:
No effect on operating point from a 5 watt field @ 27, 150, or 450 MHz

Sensor Model # 705-1-1

Material:
316 SS

Mounting:
3/4 inch NPT

Process Temperature:
Standard: -40ºF to 250ºF (-40ºC to 121ºC)
Optional: -40ºF to 350ºF (-40ºC to 177ºC)

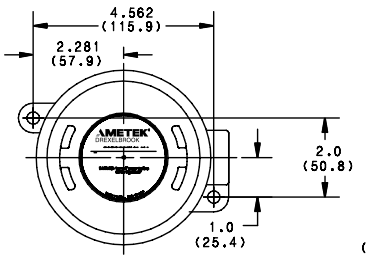
Process Pressure:
1000 psi (69 BAR)

Operating Point:
3/8 inch (9.523 mm) from tip

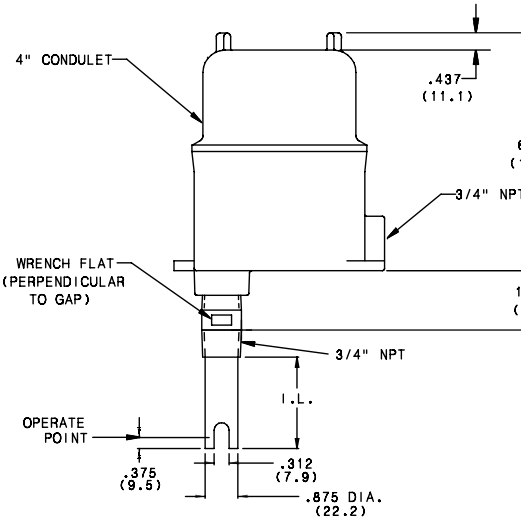
Approvals:

FM APPROVED

Mounting Dimensions



Dimensions in inches (mm).



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