Oil Smart® Pump Switch Specifications Sheet

MATERIAL

- The Oil Smart® Switch is constructed of high impact injection molded plastic.
- The Enclosure is totally encapsulated, Ignition protected, CE certified, and listed as UL Industrial Motor Equipment 508.

TEMPERATURE

- The Oil Smart® Switch standard temperature operation range is -33°F (-36°C) to 170°F (77°C)

OPERATING PRESSURE

- The Oil Smart® Switch is designed to operate to 30 psig at 70°F (21°C)

STANDYBY CURRENT

- 0.004 Amps

SIGNAL OUTPUT

- The Oil Smart° Switch is configured at the Factory.
  - 120VAC –50/60Hz (20 Amp Relay)
  - 230VAC European
  - 12/24VDC

APPROVAL

- UL Marine Listed
- CE Certified
- Bureau of Veritas (EC) listed

CONTROL CIRCUIT

- Solid State

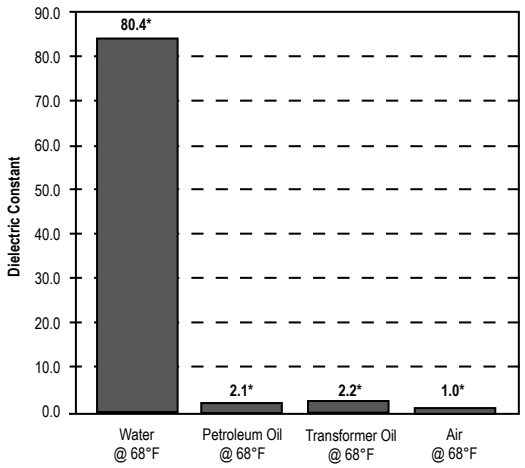
POWER INPUT

- 120VAC –50/60Hz (20 Amp Relay)
- 230VAC European
- 12/24VDC

CAPACITIVE TECHNOLOGY

- The Oil Smart® Switch is a capacitive sensor. It is factory calibrated and set up for immediate installation and operation. The dielectric design is extremely sensitive to variations in dielectric constant of air, water, oil and/or hydrocarbons (see Dielectric Data Chart).

Dielectric Data Chart

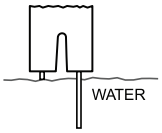


*Note: Estimated values.

HOW THE OIL SMART® SWITCH WORKS

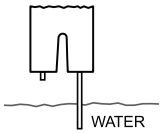
1. Pump On

The short sensor probe turns the pump "on" and the long sensor probe turns the pump "off". When the short sensor is in contact with water, the pump will turn on.



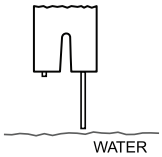
2. Pump On

The pump will remain on and continue to pump down water.



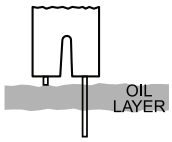
3. Pump Off

When water clears the long sensor or the off sensor, the pump will shut down.



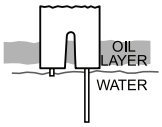
4. Pump Off

If Oil is in contact with the on sensor, the pump will not turn on.



5. Pump On

If there is a layer of oil on the switch, but water in contact with the on sensor, the switch will identify the field of water and begin to pump down.



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