

Trusted. Tested. Tough.®

SECTION: Z5.00.118

ZM3115

0119

Supersedes

New

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347
 SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961
 (502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624

Visit our website:
 zoellerengineered.com

TECHNICAL DATA SHEET

OIL DETECTION SYSTEM

FOR SUBMERSIBLE DEWATERING APPLICATIONS

Designed to help protect the environment and equipment from the dispersion of oils and/or hydrocarbons.

SYSTEMS:

- Operation of the Zoeller® Oil Detection System has been independently verified by OnSpeX, a division of CSA, when installed in accordance with our instructions.
- Controls are ASME A17.1 compliant

Oil Smart® SWITCH AND ALARM PANEL FEATURES:

- NEMA-4X alarm panel enclosure
- Audible, light alarms and dry contacts
- Preset "on" and "off" points differentiate oil and water and alerts maintenance personnel of high water or oil detected conditions
- 20' (6 m) piggyback electrical supply cord
- 20 amp internal relay
- Alarm test and silence switches
- 304 stainless steel probes
- UL508 approved switch
- Tested to UL Standard UL778 and Certified to CSA Standard CSA 22.2 No. 108



Product may not be exactly as shown.

* 6155 pump shown not included.

OR BUILD YOUR OWN SYSTEM

Part Number	Description	Alarm Panel	Oil Smart® Pump Switch	Oil Smart® High Liquid Alarm Switch	Oil Smart® High Liquid Switch
10-4625	Oil Smart® Alarm Panel	√	√	√	---
10-2149	Oil Smart® Simplex Panel	√	√	√	---
10-2150	Oil Smart® Duplex Panel	√	√	√	√
10-2516	Oil Smart® Simplex Panel w/ Motor	√	√	*	---

√ INCLUDED * VARIABLE LEVEL FLOAT SWITCH

CAUTION
 All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).

WARNING These systems are not designed for hazardous environments. Please consult factory for special options and requirements.



SIMPLEX PANEL:

- 115V, single phase
- NEMA 4X watertight enclosure w/ lockable latch
- 30 amp motor start relay
- Pump HOA switch
- Top-mounted red alarm beacon light
- 81 - 84 decibel rated alarm horn
- Horn silence and alarm test switches
- Alarm automatically resets
- Dry auxiliary alarm contacts
- Separate circuit protection for alarm
- Circuit breaker protection
- Pump "Run" indicator light



Model 10-2149

DUPLEX ALTERNATING PANEL:

- 115V, single phase
- NEMA 4X watertight enclosure w/ lockable latch
- (2) 30 amp motor start relays
- Pump HOA switches
- Top-mounted red alarm beacon light
- 81 - 84 decibel rated alarm horn
- Horn silence and alarm test switches
- Alarm automatically resets
- Dry auxiliary alarm contacts
- Separate circuit protection for alarm
- Pump "Run" indicator light



Model 10-2150

Application

The Oil Smart® Switch 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).

Material

- The Oil Smart® Switch is constructed of high impact injection molded plastic.
- Enclosure (ignition proof).
- 304 SS sensor probes.

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 (2 bar) at 70 °F (21 °C).

Standby Current

- 0.004 Amps.

Signal Output

The Oil Smart® Switch is configured at the factory.

- 120 VAC - 50/60 Hz (6 Amps).

Relay Configuration

- 20 Amp internal relay.

Approval

- UL Marine Listed
- CE Certified

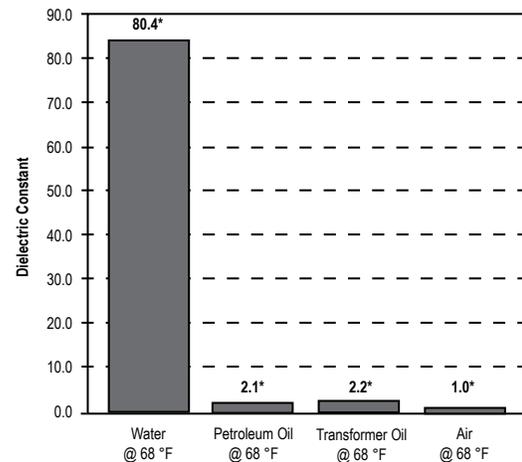
Control Circuit

- Solid State.

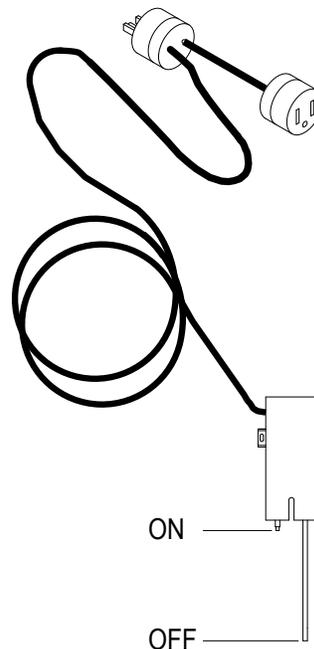
Power Input

- 120 VAC - 50/60 Hz.

Dielectric Data Chart



*Note: Estimated values.



Note: there is about 6" of differential between the (on) and (off) sensors.

SK2404

See ZM3061 for Installation Instructions

© Copyright 2019 Zoeller® Co. All rights reserved.

502-778-2731 | 800-928-7867 | 3649 Cane Run Road | Louisville, KY 40211-1961 | zoellerengineered.com