

The Oil Smart® OSS-100 System, when combined with a manual sump pump, will automatically pump water without the risk of pumping oil into the environment. Additionally, the system alerts maintenance or building personnel in the event of a high oil or high water condition. Installation of the OSS-100 allows you to comply with Elevator Code ASME A17.1 and state/federal regulations while reducing the risk of adverse publicity, fines and expensive cleanup costs. The system is a plug-and-play system that includes the Oil Smart® pump switch (OSS20PBPR6) and the Oil Smart® alarm (OSA-05).

## OIL SMART®



### Features

- Plug-and-play for easy installation, 120VAC
- Includes Oil Smart® Pump Switch (OSS20PBPR6) with 20' cord and piggyback plug
- Includes Oil Smart® high liquid alarm (OSA-05) with 10' power cord and Liquid Smart® Alarm Sensor with 20' cord
- Pump control and alarm components differentiate between oil and water
- Alarm visible indicators: Red beacon alarm light, yellow light for oil, white light for water, alarm test and silence buttons
- Alarm horn sounds at 85 decibels at 10 feet
- Remote monitoring dry contacts: Oil, Water, and High Liquid Alarm
- UL listed for the United States and Canada

### Applications

- Elevator sumps
- Electric utilities (Substations, power plants, underground vaults, and transformer barriers)
- Manufacturing facilities
- Any application where there is a need to remove water while containing oil

**Call us toll-free at 888.733.9283 to speak with one of our expert Sales Engineers.**



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## Simplex Single Phase: 120VAC

Model	Pump Full Load Amp Rating
OSS-100	0-16.0 FLA

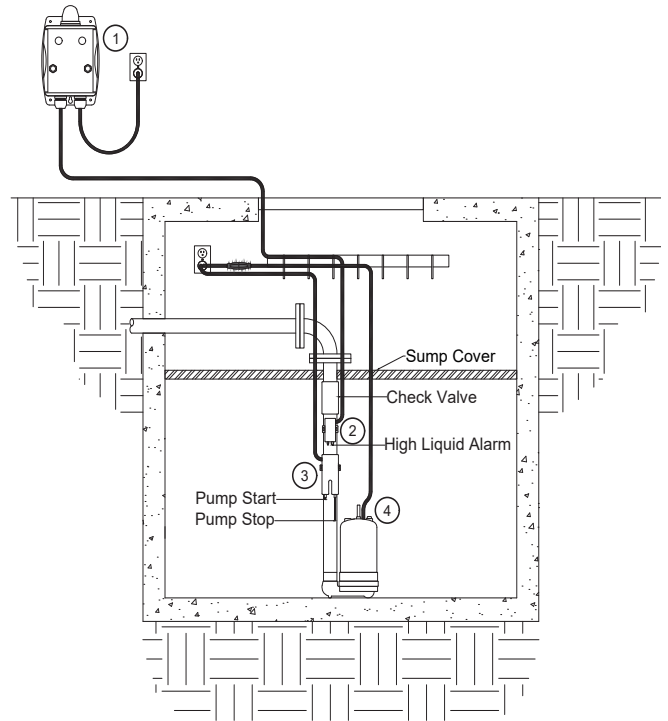
## Technical Specifications

- Panel enclosure: NEMA type 1 enclosure
- Liquid Smart® enclosure: IP68/NEMA type 6P high impact injected plastic
- Liquid Smart® technology: Combination capacitive/optic, solid-state low amp circuit
- Oil Smart® control enclosure: IP68/NEMA type 6P high impact injected plastic
- Oil Smart® control technology: Capacitive type sensitive to variations in dielectric constant of water and/or hydrocarbons

# OIL SMART®

Typical Installation of Oil Smart® Simplex Control Panel

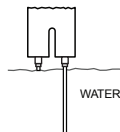
- ① Oil Smart® Alarm OSA-05
- ② Liquid Smart® Alarm Sensor
- ③ Oil Smart® Pump Switch
- ④ Submersible Pump #1



## Operation of Oil Smart®

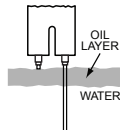
### Normal Condition (Water Only)

When water comes in contact with the short (on) sensor, the pump will turn on. The pump will remain on until water clears the long (off) sensor.



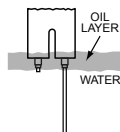
### Oil Present Condition

If oil comes in contact with the (on) sensor, the pump will not turn on.



### Water (Oil Present Condition)

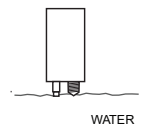
If the water level rises enough to contact the (on) sensor under the oil layer, the pump will turn on and remain on until the (off) sensor clears of water.



## Operation of Liquid Smart®

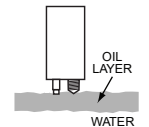
### High Water Level

When water comes in contact with both sensors, the white water indicator on the front of the panel will illuminate. This condition will turn on the red beacon alarm light and sound the alarm buzzer.



### High Oil Level

If oil comes in contact with both sensors, the yellow oil indicator on the front of the panel will illuminate. This condition will turn on the red beacon alarm light and sound the alarm buzzer.



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