

**Slick
Sleuth**

Slick Sleuth® Models SS300-EXd & SS320-EXd

Oil Spill Detection and Alarm Systems

For Installation in Hazardous Gas Areas

- Real-Time Oil Spill Detection
- Non-Contact Sensor System
- High Sensitivity & Low Maintenance
- Industrial Plants, Terminals, & Offshore
- Market Proven—Best Available Technology



Slick Sleuth systems are used in a wide variety of industrial and environmental applications for real-time detection of oil leaks and spills at refineries, terminals, power plants, airports, and other industrial facilities where early warning spill detection and control is needed. Should a leak or spill occur, Slick Sleuth provides instant detection and notification, enabling users to contain the spill and avoid environmental damage, costly cleanup, fines, and regulatory penalties.

The Slick Sleuth **SS300-EXd** is designed for installation in rugged settings such as over sumps and separators, weirs, storm water and process-water sewers, outfalls, discharges, and retention ponds. The **SS320-EXd** is designed for longer-range installation on deep-sumps, terminal piers, and offshore structures.

The patented, non-contact, scanning optics and detection system provide highly-sensitive detection capability. User-adjustable alarm thresholds can be set to detect small (micron-level) sheens and oil slick events. Slick Sleuth's output signals can be used to activate local and remote alarms, as inputs to central monitoring and control systems (SCADA, PLC, etc.), actuate valves, shut off pumps, and initiate other corrective measures.

Slick Sleuth automated oil spill detector can be used over dry or wet surfaces, but typically it is mounted over still or moving water. Non-contact sampling eliminates problems with aquatic growth or fouling due to debris, ice, or oily residue—reducing the need for maintenance and facilitating ease of installation and access

Sensors may be operated as stand-alone systems or as networked arrays with seamless integration to end user's data acquisition system (e.g., SCADA or PLC). They may also be installed as multi-unit networked systems using modems and remote access via web user interface and mobile devices.

Slick Sleuth oil spill detection systems deliver significant cost savings and environmental benefits to operators, based upon reliable, all-weather, easy-to-use, and low maintenance technology.

Please contact us to discuss using this technology as an important part of your spill prevention and response plan.



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SS300-EXd & SS320-EXd Specifications



Optical Window



- Operation: Automated, optical, non-contact sensor
Patented UV filter-fluorometer technology
Broad-range sensor detects crude, lube, hydraulic, fuel, jet, turbine, hydraulic, transformer, & many other types of oils
Contact factory to inquire about specific oils
- Sensitivity: 1± micron sheen
User adjustable sensitivity
Discrete alarm and scaled signal output
- Range: SS300-EXd up to 4.5 meters; SS320-EXd up to 9 meters (over ground or water)
- Operating Temp: -10° to 60°C (standard); -35° to 60°C (low temp option)
- EXd Enclosure: Aluminum 5086, powder-coated, see EX/flameproof ratings below
External Ports - Power In, Signal Out, USB Serial Interface
- Dimensions: Approx. 20" H x 18" W x 12" D (51cm x 46cm x 31cm)
- Weight: Approx. 139 lb (63 kg)
- Input Power: 85–264 VAC, 50/60 Hz (DC Input - Contact Factory)
- UV Light Source: Pulsed xenon flash
Collimated conical beam - 14° (SS300-EXd) and 7° (SS320-EXd)
- UV Flash Life: 5 Years typical at highest sampling rate (e.g., 2 Hz)
- User Interface: Sensor operates autonomously
Utility program used during set-up and to adjust settings
- Outputs: Relays – oil detection (DPDT) & equipment status (SPDT)
Serial – USB, RS232, RS485, and MODBUS
Analog - current loop / 0-20 mA
- Indicators: Local status & alarm (Class 1 Division 1, Zone 1) – optional
Unit is Classified as IP66 when indicators are installed
- Wireless Options: Radio, Cellular, WiFi, Satellite – Contact Factory
- Web Portal: Password accessed web user interface (WUI) – optional
- Base Station: PC running Slick Sleuth base station software - optional
- Certifications: CE marked
Conforms to US EPA Standards (EPA/530/UST-90/009)
Technology Patented by InterOcean Systems, LLC
- Warranty: 2-Year InterOcean Factory Warranty Standard

Flameproof Enclosure / System Certifications

IECEX / ATEX Certification

Compliance: EC 60079-0:2014, IEC 60079-1:2014 , EN 60079-0:2014, EN 60079-1:2014

Certifications: Ex d IIB+H2 T6 Gb IP68 / -10°C ≤ Ta ≤ +60°C / IECEX ETL 15.0032X
 $\text{Ex} \text{II} 2 \text{G Ex db IIB+H2 T6 Gb IP68} / 10^\circ\text{C} \leq T_a \leq +60^\circ\text{C} / \text{ITS 16 ATEX 102302X}$

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