



# SLICK SLEUTH SS320

## OIL SPILL DETECTION & ALARM

### Extended Range – Up To 10 Meters

The Slick Sleuth™ SS320 is specifically designed for applications requiring extended range oil leak and spill detection. The SS320 has an effective detection range of up to eight (8) meters and is ideal for installation on piers, over underground discharge channels, manhole access shafts, deep sumps and pits, at oil transfer facilities, on offshore structures and for other elevated installation points where extended detection range of oil is required.

Should an oil 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 SS320 can be mounted over water or dry surfaces. Slick Sleuth is easy to install and the **non-contact** sampling eliminates maintenance hassles and expense attributed to contaminants, aquatic growth, and fouling due to debris, ice, or oily residue. Sensors may be operated as stand-alone systems, or as networked arrays, for seamless integration to end user's data acquisition system (e.g. SCADA or PLC).

Slick Sleuth's patented non-contact scanning optics and detection processor provides high-sensitivity and user-adjustable alarm thresholds for detection of small (micron-level) sheens or oils slicks in real time. Slick Sleuth's output signals can be used to activate local and remote alarms, as inputs to central monitoring and control systems and to actuate valves, shut off pumps and initiate other corrective measures.

Slick Sleuth technology has been widely used for remote spill detection in industrial applications, including at refineries, marine terminals, tank farms, power plants, airports, and other facilities where early warning spill detection and control is needed. The SS320 Extended Range Slick Sleuth adapts this same proven Slick Sleuth technology to be used for any spill monitoring application requiring surface monitoring from a distance of 1 - 10 meters. The SS320 offers the same form factor and rugged reliability as our standard SS300 product line.

The Slick Sleuth oil spill detection system delivers significant cost reduction and environmental benefits to operators with its reliable, all-weather, non-contact and low maintenance technology.



Application Example:  
Marine Oil Terminal

Model : SS320  
Oil Spill Detector



**Real-Time Oil Spill Detection**  
**Non-Contact Sensor System**  
**High Sensitivity - No Maintenance**

SLICK SLEUTH

# Slick Sleuth



Underground Effluent Discharge Monitoring Application



Pier Application



Offshore Application

## Specification

**Model:** SS320 - "Extended Range" Slick Sleuth™  
**Operation:** Automated, Optical, Non-Contact Sensor  
 Patented UV Filter-Fluorometer Methodology  
 Oil On Water Detection: Crude, Lube, Hydraulic, Jet/Aviation, Diesel, Fuel Oil, Turbine, Transformer, and Many Others  
*(contact factory to inquire about types of oil detected)*

**Sensitivity:** 1 +/- Micron Sheen  
 User Adjustable Sensitivity  
 Discrete Alarm and/or Scaled Signal Output

**Range:** 10 Meters (Maximum Distance Above Surface)

**Operating Temp:** -10 to +60 °C (Standard) -35 to +60 °C (Optional)

**Enclosure:** Stainless Steel  
 NEMA 4X, IP66, Weatherproof Housing  
 External Ports: Power In, Signal Out, USB Serial Interface  
 4-Corner Mounting Tabs

**Purge Compatible:** Purge System for Hazardous Gas Locations (Contact Factory)

**Dimensions:** Approx. 8¼" x 12¼" x 15½" / 21cm x 31cm x 39cm (D x W x H)

**Weight:** Approx. 30 lbs / 13 kg

**Input Power:** 85-264 VAC, 50/60 Hz (DC Option Available - Contact Factory)

**UV Light Source:** Xenon Flash Used to Generate a Collimated Beam

**UV Flash Life:** 5 Years (typical) at Highest Sampling Rate (e.g. 2 Hz) Local

**Outputs:** Status and Alarm Indicators (Red/Green LEDs)  
 Oil Detection Relay (DPDT), Equipment Status Relay (SPDT)  
 Serial: USB, RS232, RS485, and MODBUS  
 Current Loop / 0-20 mA

**Wireless Options:** Radio, GSM/CDMA Cellular, Wi-Fi, Satellite - Contact Factory

**User Interface:** Sensor Operates Autonomously  
 Utility Program Used During Set-up and to Adjust Settings  
 Slick Sleuth Base Station Software (Optional)

**Base Station:** Slick Sleuth Base Station Software (Optional)

**Certifications:** CE Marked  
 Conforms to US EPA Standards (EPA/530/UST-90/009)  
 Technology Patented by InterOcean Systems, Inc.

**Warranty:** 2-Year InterOcean Factory Warranty Standard

## Model SS320 - Extended Range Slick Sleuth Installation Drawing

