



Laser Diagnostic Instruments



**SUITABLE FOR ATMOSPHERES CONTAINING:**

acetaldehyde, ethane, ethyl chloride, ammonia, benzines, gasoline, n-butyl alcohol, diesel fuels, jet engine fuels, acetic acid anhydride, n-hexane, methane, methanol, naphthalene, phenol, propane, toluene



# ROW Ex d OIL DETECTOR FOR HAZARDOUS AREAS

ROW Ex d oil spill detector is designed to detect oil contamination in the hazardous areas where ignitable concentrations of flammable gases, vapors or mists often exist. These areas are typically designed as Zone 1 and require explosion-proof instruments.

### › FLAMEPROOF (Ex d) ENCLOSURE

ROW Ex d Oil Detector is encased in a flameproof (explosion-proof) 3rd party certified enclosure by Bartec. Made from 316L stainless steel, which is acid and corrosion resistant, this ROW model is ideal to be installed in even the toughest environments.

### › TOP IP RATED Ex d DEVICE

IP68 certified non-contact Ex d oil detector, using UV fluorescence method — highest rated on the market.

### › RANGE BEST IN CLASS

Outstanding detection range of 8m — twice the distance in comparison to similar products on the market.

### › INDUSTRY LEADING SENSITIVITY — 1µm

Advanced software algorithms are calibrated to detect oil down to a single-micron layer and minimize false alarms.

### › COMPATIBLE WITH EXISTING DEVICES

ROW Ex d Oil Detector can be installed within a network of LDI's ROW Stainless Steel and ROW Aluminium devices, making expansion of existing ROW networks exceptionally convenient.



Italy,  
Oil Terminal

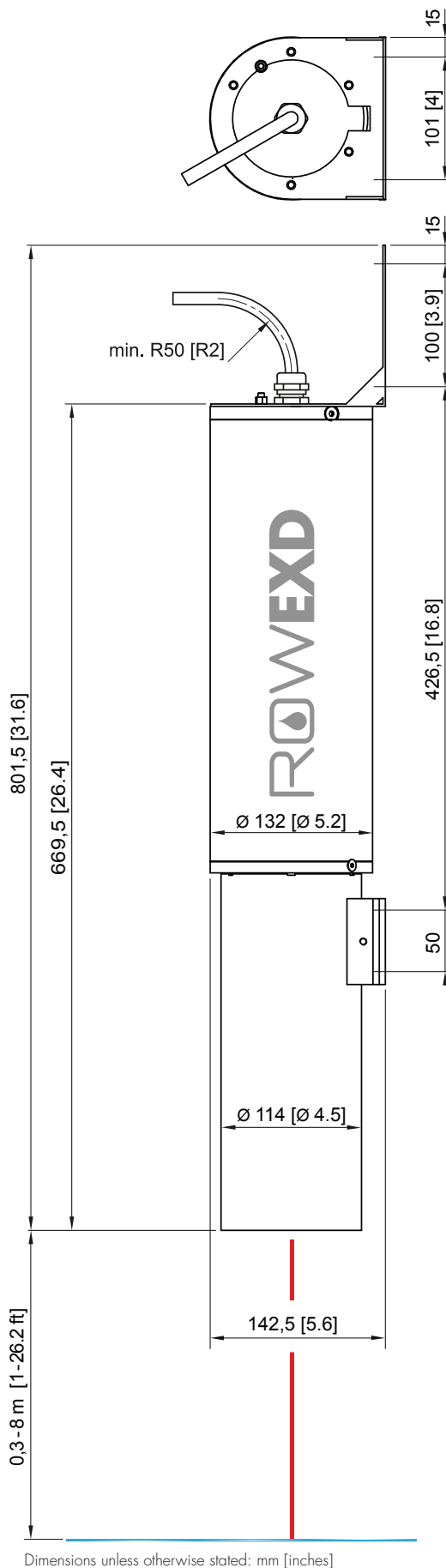


Norway,  
Fuel Depot



Belgium, Oil Refinery

Optical non-contact and autonomous sensor for real-time detection of oil contamination in hazardous areas.



## TECHNICAL SPECIFICATIONS

<b>MODEL</b>	O-2301B Ex d Zone 1	
<b>SENSITIVITY</b>	> 1 µm (micrometer) oil film	
<b>RANGE</b>	up to 8 m above surface (water or ground)	
<b>OPERATION TEMPERATURE</b>	-30°C to +60°C [-22°F to 140°F]	
<b>ENCLOSURE</b>	ATEX & IECEx flameproof enclosure - Zone 1 II 2 G Ex d IIB Class 1, Division 1 Groups CD IP68, stainless steel 316L	
<b>DIMENSIONS</b>	669,5 x 142,5 x 132 mm [26.4 x 5.6 x 5.2 in]	
<b>WEIGHT</b>	12 kg [26.5 lbs]	
<b>POWER OPTIONS</b>	12 VDC (10V - 30V) as standard other options: 110/220 VAC 60/50 Hz AC/DC adapter, solar/battery options available	
<b>POWER USAGE</b>	< 2 Watt (DC)	
<b>LIGHT SOURCE</b>	pulsed UV LED	
<b>LED LIFETIME</b>	5 years typical, thereafter, LED replacement	
<b>OUTPUT</b>	relay contacts, RS-485, 4-20 mA (as standard)	
<b>COMMUNICATION OPTIONS</b>	RS-232 ethernet/LAN audio alarm wireless radio link Wi-Fi GSM custom solution	optional adapters available – contact Sales Engineer for additional information
<b>USER INTERFACE</b>	ROW Configurator for setup & adjustment ROW Manager for network visualization	
<b>SYSTEM CERTIFICATIONS</b>	CE: EN 61000-6-2, 61000-6-3 EN 61326-1, 61000-4-2, 61000-4-5, 61000-4-6, 61000-4-8, EN 61010-1 US EPA: (EPA/530/UST-90/009)	
<b>ENCLOSURE CERTIFICATIONS</b>	DNV-2003-OSL-ATEX-0436U: EN/IEC: 60079-0, 60079-1 IP68: EN 60529	
<b>WARRANTY</b>	2 year factory warranty as standard, supported worldwide	