

Oil Film Detector Apolarm™ M LMD-3000N

The Last Line of Defense

—An elite oil film detection device that never misses surface anomalies

- ✓ High-end model designed for long-range applications (Detects 0.3m – 4m)
- ✓ Full coverage with zero blind spots — 360° scanning
- ✓ Minimize false alarms — With Area Detection
- ✓ Easy installation, precise detection — No optical alignment required.
- ✓ See everything at a glance — Large display
- ✓ Minimize running costs (No parts replacement required for 10 years)



AsahiKASEI
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JQA-2894

JQA-EM0561
Nobeoka Office

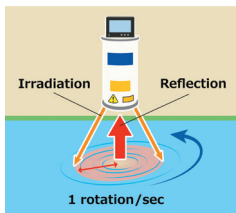
LMD-3000N

Specifications

LMD-3000N System

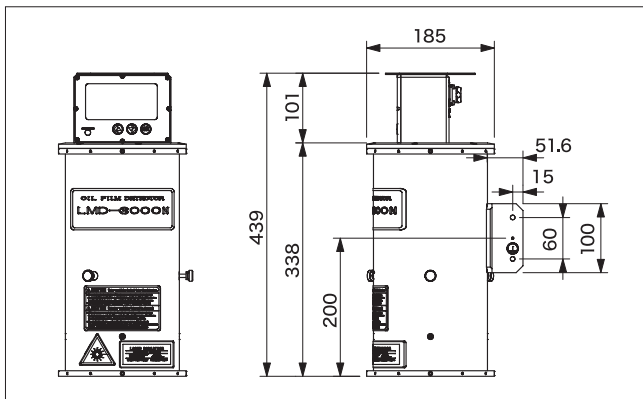
Model	LMD-3000N
Subject of detection	Oil films floating on water surface or floor (gasoline, kerosene, light oil, heavy oil, insulation oil, lubricating oil, etc.)
Detection method	Laser beam scanning and reflected light receiving
Light source	Semiconductor laser output 1 mW or less (Class 2)
Alarm setting and determination	Oil film level, oil film area, oil film duration, alarm determination (alarm is generated when the condition exceeding the set level continues for the oil film continuing time or more.)
Output	1-point current output (4 to 20 mA according to the light receiving level) and 2-point contact output(oil film alarm, equipment failures, level abnormality)
Display	Light receiving level (4 to 20 mA), oil film area (0 to 100%), setting level, operation display
Power supply	AC 100 V±10% 50/60Hz 100 VA or less
Supplied cable	Power cable (1.25 mm sq., 3-wire, 5 m), signal cable (0.5 mm sq., 8-wire shielded, 5 m)
Installation conditions	Installation inclination (±3° or less), no freeze of water surface subject to oil film detection, direct sunlight and rain protection required, detection distance: 0.3 to 4 m (max. 6 m for still water surface)
Surrounding environment	Temperature: -10 to 50°C
Structure	Sealed structure, applicable for outdoor use, equivalent to IP66
External dimensions	φ185x439(H) mm
Weight	Approx. 8.4 kg (including accessory cable of 1.4 kg)
Option	Shading hood, anti-fog hood, mounting stand

Detection principle

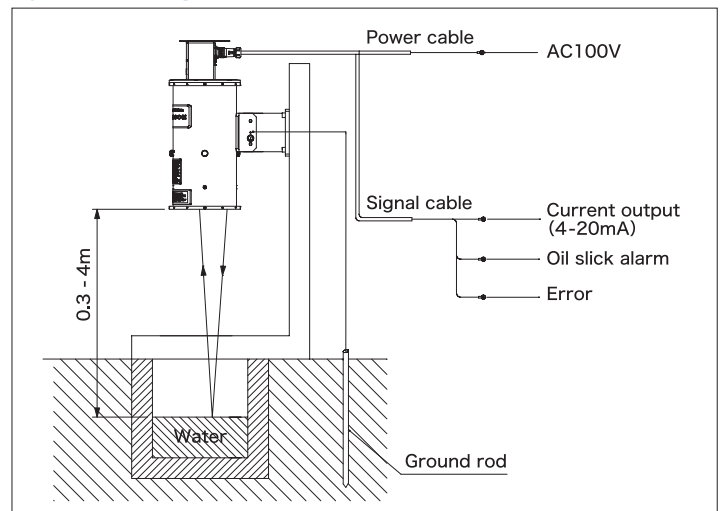


The LMD-3000N laser scanning oil film detector utilizes the property that oil has a higher reflectivity than water. This detection system projects a semiconductor laser beam onto the water surface and captures fluctuations in the intensity of the reflected light to detect oil films floating on the water surface.

Outline drawing



System configuration



⚠ Safety Precautions Before use of this product, carefully read "Warnings and Cautions" in the Instruction Manual supplied with the product.

⚠ Precautions for Use To ensure proper and safe operation, be sure to read the "Instruction Manual" before using this product.

- The specifications or external appearance described in this brochure are subject to change without prior notification due to alteration of laws and regulations or improvements to this product.
- Actual colors may slightly vary from those of the photos due to printing.

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