

OL-HCS

Reliable Hydrocarbon Sensor Cable



Description

The OL-HCS is a high-performance passive hydrocarbon detector specifically designed for detecting the unwanted presence of a wide range of liquid hydrocarbons. This modular and easy to connect sensor cable provides quick reaction to light and heavy hydrocarbons and can be used in outdoor environment. The detected hydrocarbons are primarily gasoline, diesel, jet fuel, motor oils, lube and transformer oils, etc. The OL-HCS sensor cable is assembled in factory with heavy-duty corrosion-resistant IP68-rated waterproof connectors.

The sensor is engineered for reliable operation in both indoor and outdoor conditions. The waterproof connectors allow the sensor to be immune to non-permanent immersion in water. The semi-conductive sensor material is extremely durable and can withstand continuous exposure to temperatures in excess of 100°C. The sensor cable is UV resistant, anti-termite and anti-rodent and can be used in tropical applications.

The sensor cable contains all the wiring necessary for long-range applications. Addressable circuits are configured using the OL-HCM acquisition module. The modular construction and detachable module allow easy reconfiguration of the system and very intuitive troubleshooting.

When used for applications in hazardous areas, the sensor cable will be wired to an intrinsically-safe acquisition modules, or alternatively through a Zener barrier to a sensor module installed in the safe zone. The sensor cable itself is a simple element and does not require specific evaluation.



Photos and illustrations are not contractually binding and are subject to change without notice.

Typical detection time at 20°C:

Unleaded Gasoline:	2 minutes
Diesel/ Jet Fuel:	5 minutes
Light Crude Oils:	10-14 minutes
Motor/Silicone Oils:	20-35 minutes
Bunker C Oil:	55-90 minutes

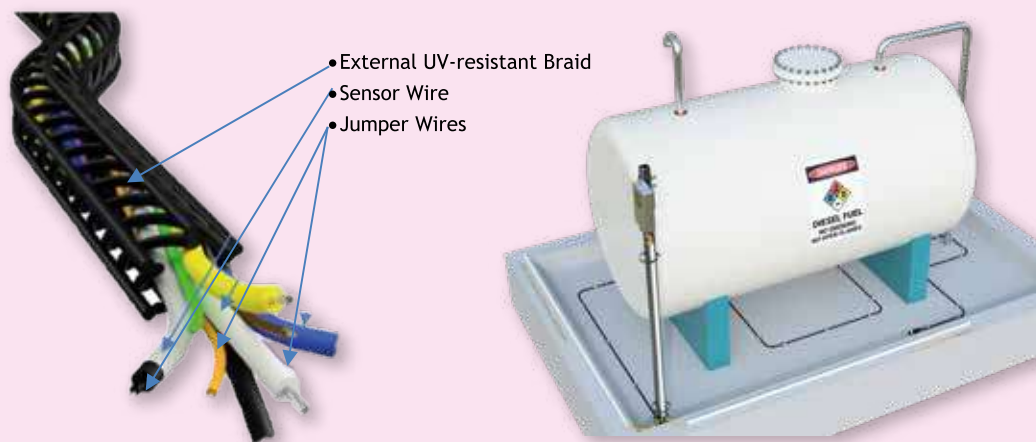
Features and Benefits

- Detects reliably all fuels and motor oils
- Reusable after being contaminated
- Fully passive construction, expected service life of 25+ years
- Insensitive to vibrations, methane, water
- Wide operating temperatures range
- Reduced maintenance and easy troubleshooting
- Can be used indoor / outdoor / in direct sunlight or buried with suitable accessories


Typical Applications

- Monitoring of diesel generators and associated tanks and pipework
- Monitoring of Military and Scientific fuel depots in demanding environmental conditions
- Leak detection in commercial buildings, hospitals, data centers, etc.
- Monitoring of oil-filled power transformers, lube oil storage tanks, etc.

Sensor Cable Construction and Typical Application



Technical Data

Operating Life	25+ years at 40°C (materials tested in natural ageing conditions)
Weight	50 g/meter
Fire Rating	Non-flame propagating
Connector Ingress Rating	IP68 - suitable for outdoor installation
Operating Temperature Range	-25°C to +100°C
Recommended Maximum Section Length	15 meters
Hazardous Locations Classification	IS/ I/ 1/ ABCD/ T4; I/ 0/ AEx/ ia IIC T4; Class I, Zone 0, Ex ia T4 Class I, Div. 1, Groups A, B, C, D; T4  II 1 G Ex ia IIC T4 Ga
Breaking Strength of Cable	150kg / 330lb
Maximum Bending Radius	100mm
Cable Diameter	10mm

Attention! Sensor cable OL-HCS can only be used with the OL brand acquisition modules. Other applications will lead to unpredictable operation and unexpected results. For performance metrics with various hydrocarbons and solvents, please contact OmniLeak.

Product Codes

OL-HCS-3	Sensor cable for hydrocarbon liquids - length of 3 m
OL-HCS-7	Sensor cable for hydrocarbon liquids - length of 7 m
OL-HCS-15	Sensor cable for hydrocarbon liquids - length of 15 m

Manufacturer

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Certifications



Valid only when used with the appropriate certified acquisition devices
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