

OL-CLS

Sensor Cable for Conductive Liquids



Description

OL-CLS is a high-performance sensor cable used to detect leaks of conductive liquids. The detected liquids are primarily water, glycol/water, weak and strong acids, bases, inorganic solutions, etc. The OL-CLS sensor cable is offered as modular sensor section with factory-assembled IP68-rated industrial connectors. Sensing cable construction is of low smoke zero halogen material (LSZH).

The sensor cable is specially engineered for reliable operation in challenging environmental conditions. In long-range applications, in addressable systems, up to 5,000 meters of sensor strings can be formed using suitable sensor modules and monitoring panels available from OmniLeak. The recommended maximum sensor cable length per finished section is 15 m, non-standard lengths are available on request with a maximum of 30 m per assembled cable. The sensor cable is fully passive and can be used in sealed/buried applications. The entire length of the sensor cable detects and pin points location of leaks and in the event of a leak, cables can be re-used multiple times after a short drying time.

Connecting a sensor module at the beginning of each leak detection cable allows the composition of a fully addressable, high reliability system with loopback capability. The associated sensor module, type OL-SLDM, is a heavy-duty device engineered for wide temperature range. The sensor module is fitted with a multi-color LED for local identification of the sensor status and for easy troubleshooting.

Features and Benefits

- Detects immediately all conductive liquids
- Corrosion-resistant, can be used with strong acids and bases
- Fully passive construction, expected service life of 30+ years
- Insensitive to pressure, vibrations, methane
- Very wide operating temperatures range
- Cable breaks are reliably detected and the broken sensor cable string clearly identified
- Leak location accuracy +/- 1m
- Made of LSZH Material



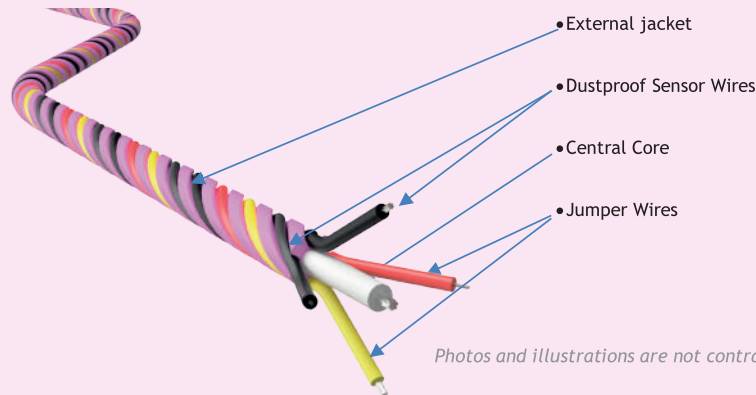
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Reaction of sensor cable to conductive liquids is immediate and the response time depends entirely on the communication delay between the monitoring panel and the sensor modules. The maximum latency is 30 seconds in long-range applications. On request, the sensor can be supplied with a UV-resistant braid. The braided structure can also be used for wicking applications when drip trays under pipes are not available.

Typical Applications

- Leak detection in data centers and mission critical infrastructure.
- Banking and commercial Buildings
- Pump Rooms
- HVAC Plant rooms
- Remote chemical facilities
- Monitoring of Military and Scientific depots
- Chilled water piping applications
- Telecom and High Rise Buildings
- Stadiums and Museums

Sensor Cable Construction and Typical Application



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Technical Data

Cable Diameter	6.5 mm
Operating Life	30+ years
Weight	60-65 g/meter
Fire Rating	Non-flame propagating
Minimum bending radius	25 mm
Operating Temperature Range	-55° C to +100° C (static only)
Maximum sensor cable length	30 meters
Breaking Strength of Sensing Cable	150kg / 330lbs

Attention! The sensor cable OL-CLS can only be used with the OmniLeak sensor modules. Other applications will lead to unpredictable performance and unexpected results.

Product Codes

OL-CLS-3	Sensor cable for conductive liquids - length of 3 m
OL-CLS -7	Sensor cable for conductive liquids - length of 7 m
OL-CLS -15	Sensor cable for conductive liquids - length of 15 m
OL-CLS -30	Sensor cable for conductive liquids - length of 30 m (limited availability, MOQ applies)
OL-CLS-SLDM-3	Addressable sensor cable for conductive liquids (set with LSDM module) - length of 3 m
OL-CLS -SLDM-7	Addressable sensor cable for conductive liquids (set with LSDM module) - length of 7 m
OL-CLS -SLDM-15	Addressable sensor cable for conductive liquids (set with LSDM module) - length of 15 m

Manufacturer

OmniLeak by Dagman S.A.S - France
32-34 Rue des Osiers 78 310 COIGNIERS
Paris, France.

Email: admin@omnileak-me.com

Web: www.omnileak-me.com



Certifications



Valid only when used with the appropriate certified acquisition devices

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