

Description

The OL-ALS is a high-performance sensor cable used to detect leaks of a wide range of highly corrosive conductive liquids / acids. The OL-ALS can pin-point the location of corrosive conductive liquids throughout its entire length and can be re-used after correct cleaning using recommended solvents. The OL-ALS 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.

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.

When used for applications in hazardous areas, the sensor cable shall be wired to the sensor modules through a Zener barrier,



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with sensor module installed in the safe zone. Please contact OmniLeak for additional information.

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.

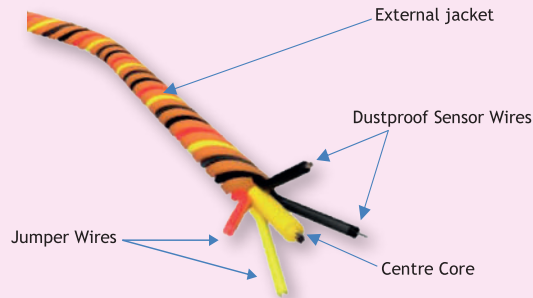
Features and Benefits

- Detects immediately leaks of corrosive conductive liquids
- Corrosion-resistant & fully reusable after contamination
- Fully passive construction, expected service life of 30+ years
- Very wide operating temperatures range
- Reduced maintenance and easy troubleshooting
- Leak detection accuracy +/- 1m

Typical Applications

- Leak detection in battery rooms, acid storage tanks, etc.
- Leak detection in Laboratories
- Leak detection in Commercial buildings, hospitals, data centers, etc.
- Fab plants, semi-conductor plants etc.

Sensor Cable Construction and Chemical Types Detected



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Corrosive Conductive Liquids Sensing Cable Detects		
Glucose	Ferrous Chloride	Hydrochloric Acid
Sea water	Liquid Chlorine	Silver Nitrate
Alcohols	Sulfuric Acid	Sodium Hydroxide
Nitric Acid	Sodium Sulphate	Potassium Hydroxide
Salicylic Acid	Acetic Acid	Ferrous Chloride
Caustic Soda	Carbonic Acid	Calcium Carbonate

Some common examples in the table above of which chemicals are detected using OL-ALS. Consult with an OmniLeak representative for information on other conductive liquids which may not be stated.

Technical Data

Cable Diameter	6.5mm
Operating Life	30+ years at 40 °C
Weight	60-65g/meter
Fire Rating	Non-flame propagating
Connector Ingress Rating	IP68 - suitable for outdoor installation
Operating Temperature Range	-40 °C to +100 °C
Recommended Maximum Section Length	15 meters (30m available - MOQ applies)

Attention! The sensor cable OL-ALS can only be used with the OmniLeak brand acquisition modules. Other applications will lead to unpredictable operation and unexpected results. For performance metrics with various acids and corrosive liquids, please contact OmniLeak.

Product Codes

OL-ALS-3	Sensing Cable for Highly Corrosive Conductive Liquid - length of 3 m
OL-ALS-7	Sensing Cable for Highly Corrosive Conductive Liquid - length of 7 m
OL-ALS-15	Sensing Cable for Highly Corrosive Conductive Liquid - length of 15 m
OL-ALS-30	Sensing Cable for Highly Corrosive Conductive Liquid - length of 30 m (MOQ applies)
OL-ALS-SLDM-3	Set of addressable sensor cable / module for highly corrosive conductive liquid - length of 3 m
OL-ALS-SLDM-7	Set of addressable sensor cable / module for highly corrosive conductive liquid - length of 7 m
OL-ALS-SLDM-15	Set of addressable sensor cable / module for highly corrosive conductive liquid - length of 15 m

Manufacturer

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Certifications



Valid only when used with the appropriate certified acquisition devices

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