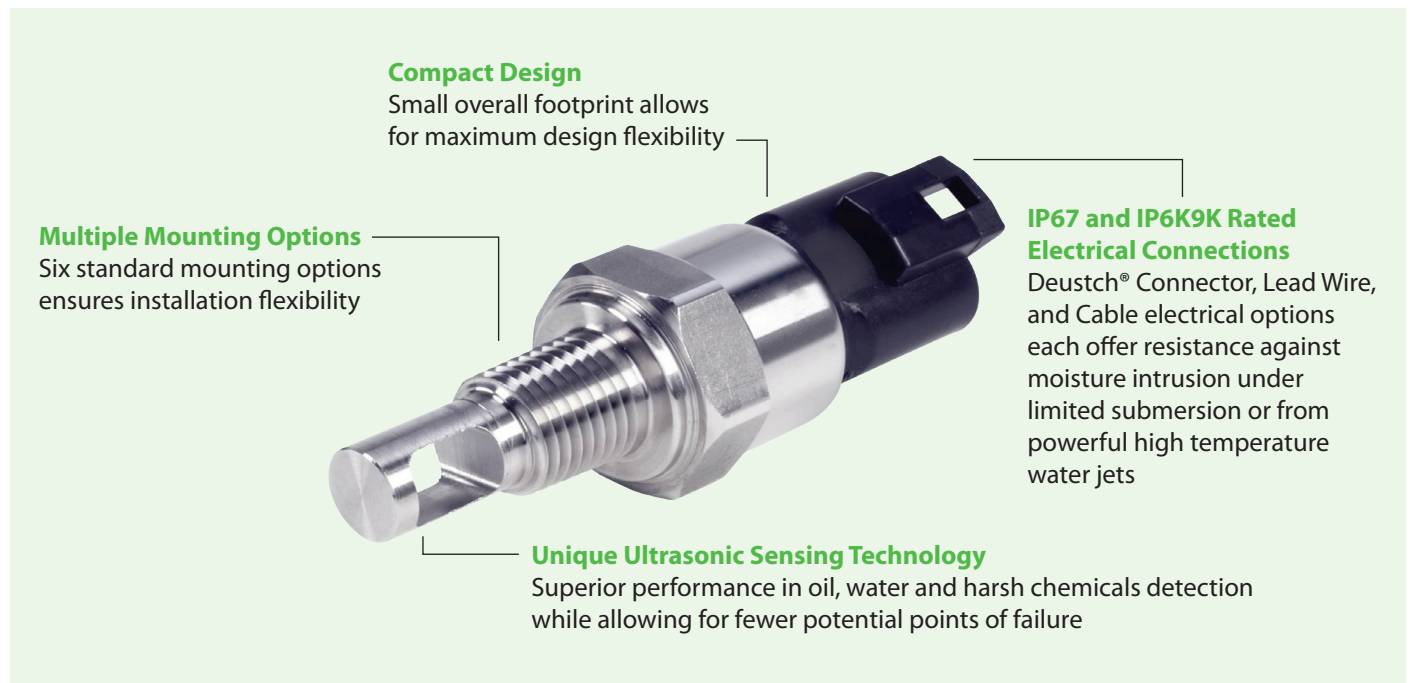


# Rugged ultrasonic level sensor that stands up to oil, harsh chemicals, shock and vibration.

*XLS-1: Designed for reliable performance in challenging applications*



## Advanced ultrasonic level sensing technology

Uniquely designed to reduce customer downtime, the rugged and compact XLS-1 with microcontroller has no moving parts and reliably senses oil, water and harsh chemicals while ignoring foam and condensation.

## Moisture protection reliability for indoor and outdoor applications

In addition to meeting IP67, Gems XLS-1 meets IP6K9K – a more stringent requirement for high-pressure/high-temperature wash downs. The industry leading IP standard reduces customer worry about moisture ingress in tough environments.

## Multiple thread options

The XLS-1 product line offers six (6) standard thread options for ease of installation. The multiple thread options reduces design constraints and enables customers with complex systems to avoid lengthy design changes.

## Extensive pretesting reduces engineering cost and time to market

The XLS-1 comes pretested to industry-leading load (15 G), temperature (-40°F to 257°F/-40°C to 125°C), vibration (10 to 2000 Hz) and pressure (250 psi with capability up to 500 psi – consult factory) standards to reduce your overall product testing.

# Ready to Serve Your Most Demanding Applications



**Specialty Vehicles**  
Handles powerful wash downs.



**Municipal Safety**  
Designed to be dependable even with intermittent heavy use.



**Agricultural**  
Dependable performance in unique chemical exposures.



**Mining & Construction**  
Proven durability in high shock and vibration environments.



**Printing**  
Small footprint, lets XLS-1 easily fit into existing systems.

## XLS-1 Competitive Advantages

- ✓ **Compact Design** – The XLS-1 with microcontroller provides maximum flexibility for equipment designers
- ✓ **Extensive Pretesting** – Ensures superior performance and reliable sensing in harsh environments
- ✓ **Multiple Mounting Options** – XLS-1 can be incorporated into a vast range of applications
- ✓ **Unique Ultrasonic Sensing Technology** – Reliably sense oil, water and harsh chemicals while ignoring foam and condensation
- ✓ **IP67 and IP6K9K Rated Electrical Connections** – XLS-1 can stand up to demanding applications

## XLS-1 Options

- **Actuation Condition:**
  - Wet Sink or Dry Sink
  - Wet Source or Dry Source
- **Electrical Connections:**
  - Integral 3-pin Deutsch® Connector
  - 18 AWG, 12"-14" Extended Flying Leads
  - 12"-14" PVC Cable
- **Mounting Type:**
  - M12 x 1.0 (TYPE 10)
  - 1/2" – 14 NPT (TYPE 12)
  - 1/4" – 18 NPT (TYPE 14)
  - M12 x 1.5 per ISO6149-3 (TYPE 15)
  - 1/2" – 20 per SAE J1926-3 (TYPE 20)
  - G1/4" – 19 BSPP (TYPE 24)

Visit [GemsSensors.com](http://GemsSensors.com) to view our full range of liquid level sensing products



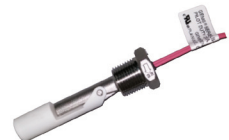
CAP-300  
Low Coolant Level



ETS Series  
Temperature Sensors



ELS-1150  
Electro-Optical Liquid Level



LS-7  
Float Reed Switch



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