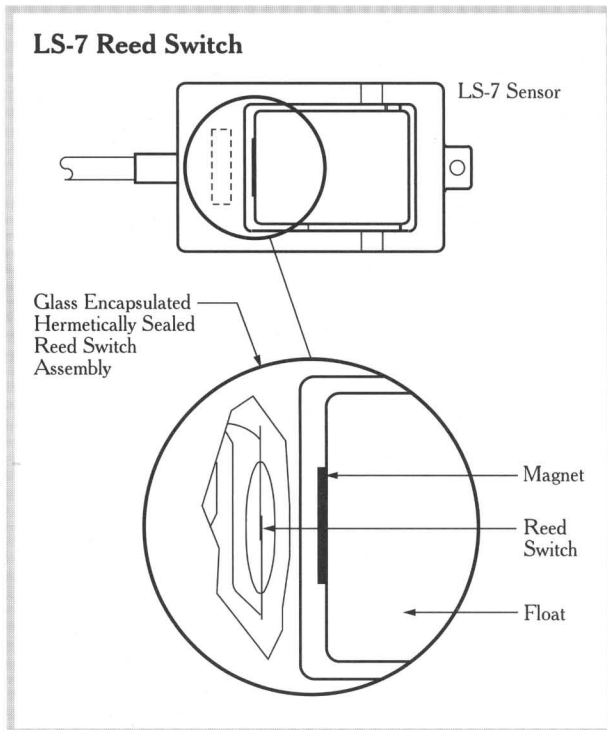


### Typical Applications

- DW Fiberglass Tank Dry Interstice Monitoring
- DW Piping Containment Sumps
- Horizontal Application Point Level Sensing
- Restricted Vertical Clearance
- Where Ground Level Testing is Required



S E R I E S X 7 6

## Horizontal Liquid Sensor Model LS-7/-7s

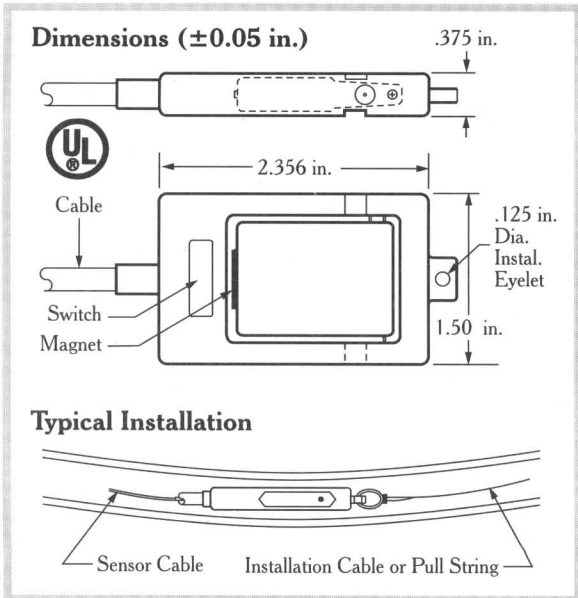
Ronan Engineering's Models LS-7s and LS-7s Horizontal Liquid Sensors are designed to detect the intrusion of liquid in dry interstice DW fiberglass tanks, containment zones and caisson compartments where horizontal positioning of the sensor is preferred. The integral Pull-to-Test cable on the LS-7s, required in some jurisdictions, allows sensor testing from ground level. Constructed of PVC the LS-7 and LS-7s will provide years of trouble-free service.

The LS-7's unique design cannot be installed upside down as is the case with sensors from other manufacturers. Liquid collection sufficient to raise the sensor float will transmit a signal to the control panel to initiate control functions or annunciate alarms.

The LS-7's thin cross section makes it ideal for applications where limited vertical clearance is available. The sensor may be installed in any horizontal application where there is 0.625 inches of vertical clearance.

### Dependable Simple Operation

Ronan's LS-7 Sensor operates on a direct principle. A glass encapsulated, hermetically sealed, reed switch is embedded within the sensor body. A permanent magnet in the sensors float creates a magnetic field which surrounds the reed switch holding the switch closed. When the magnetic field is removed by moving the float, the reed switch is actuated, thereby changing state. This condition opens a closed switch. This change in state is then signaled to the control panel.



### Specifications

Specifications are subject to change without notice. Contact Ronan Engineering to verify critical specifications.

Wetted Parts: PVC (Geon 87241)

Installation: Horizontal, 0.635 inch minimum vertical clearance

Switch Rating: SPST 10VA, 120-240Vac pilot duty

Operating Temperature:  $-40^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$

Liquid S.G.: 0.70 minimum

Pressure: 50 psi maximum

Cable: PVC jacket, twisted pair, 20AWG, 25 ft

### Options

LS-7: Standard Horizontal Liquid Sensor

LS-7s: Horizontal Liquid Sensor, with integral Pull-to-Test cable

### Ordering Information

#### Part No. Description

LS-7 Standard Horizontal Liquid Sensor with normally closed contacts

LS-7s Standard Horizontal Liquid Sensor with integral Pull-to-Test cable



**Ronan Engineering Company**  
**Leak Detection Measurements Division**

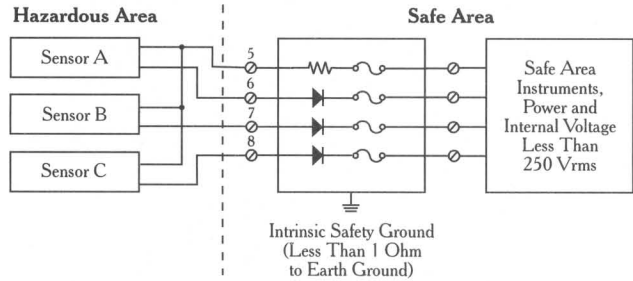
21200 Oxnard Street, Woodland Hills, California 91367  
 818.883-5211 FAX: 818.992.6435

<http://www.ronan.com> E-mail: [info@ronan.com](mailto:info@ronan.com)

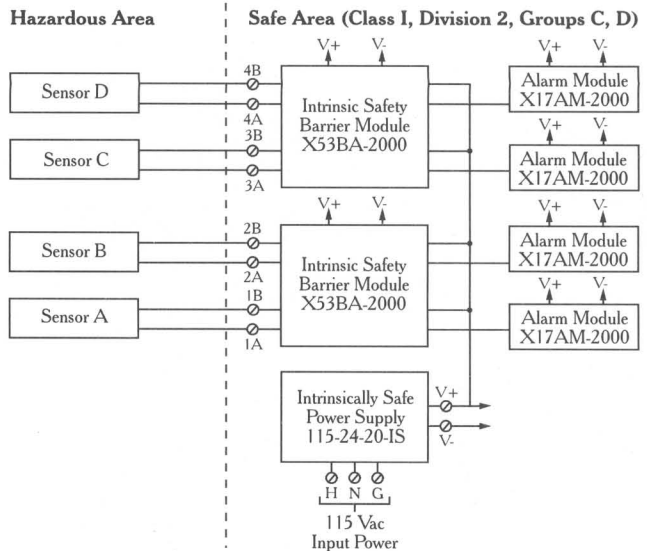
LS-7-7s/Rev. 1

## Typical Wiring Diagrams

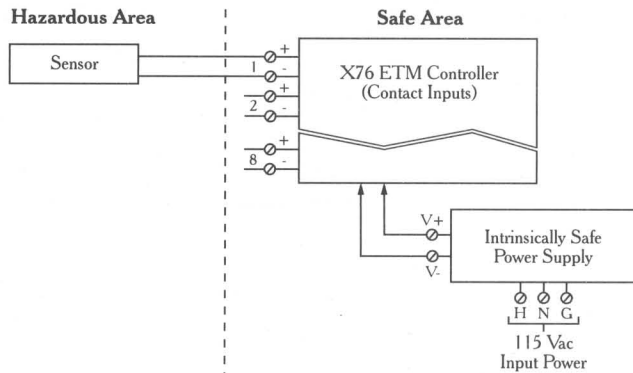
### X76LVC, X76LVCS, X76-4X & X76AST-4X Systems



### X76S System



### X76ETM-4X & X76ETM Systems



For additional information, catalogs and pricing, contact your local Ronan distributor or call 800-32-ROAN.