



Description

OMNTEC's LU and LPD leak-detection and overfill-alarm systems provide continuous, accurate monitoring in a variety of applications. Typical applications are reservoirs, sumps, dry interstitial spaces and dispenser pans. These easy-to-install controllers alarm for in tank levels and leak conditions. The LU controllers are capable of accepting up to 9 sensors for high level and leak detection. The LPD controllers are capable of accepting up to 9 sensors for in tank levels and product distinguishing leak detection. The electro-optic sensors used with these controllers allow users to easily cycle all sensors through a simulated leak, with the press of a single button. This feature eliminates the need to remove the sensor from its location.

An alarm condition is visually signaled by a dedicated LED indicator, which remains lit until the alarm condition is corrected. Alarm conditions are audibly annunciated via a 95-decibel piezoelectric pulsing horn. RA-series remote annunciators add high-level remote audio-visual alarms without the need for external AC power.

The LU-SP series controllers accommodate a variety of special applications. In addition, LU-OW systems are available for use with Oil Water Separators.

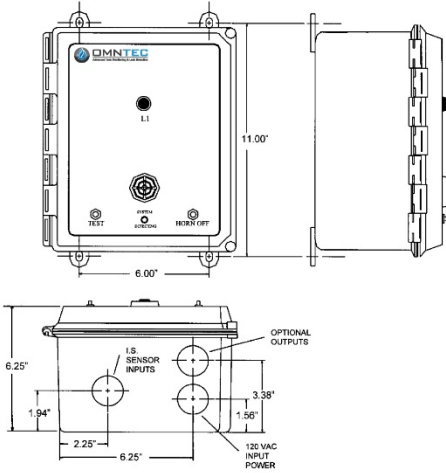
The NEMA 4X rating of the LU and LPD series controllers indicates a weatherproof, corrosion-resistant product. These controllers are ruggedly constructed to provide reliable and cost-effective performance.

Features

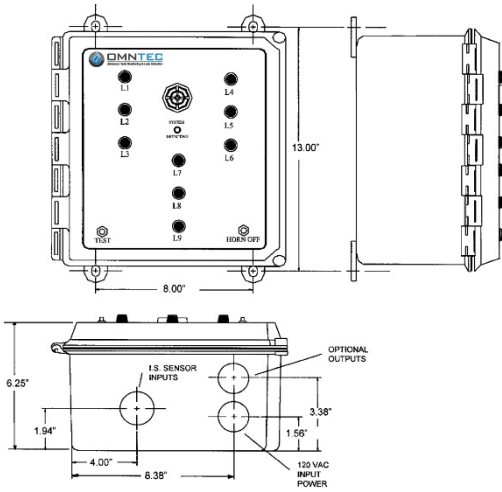
- NEMA 4X weatherproof, corrosion-resistant
- Remote sensor testing
- Acknowledge switch
- Test switch
- System detect light
- Easily installed
- Low-voltage remote annunciator outputs
- Relay outputs (see specifications)
- LED indicators rated MTBF 11 years
- Specific sensor LED
- Inputs accept either high level, caution level or leak sensors
- Low level alarm (LPD controllers only)
- Distinguishes liquid hydrocarbons from water (LPD controllers only)
- Removable sensor input connectors
- U.L. listed
- Third-party certified
- Cost effective
- Modified controllers for special applications

LU1

LU2, LU3, LU4, LU6 and L1PD2 dimensions are same as LU1

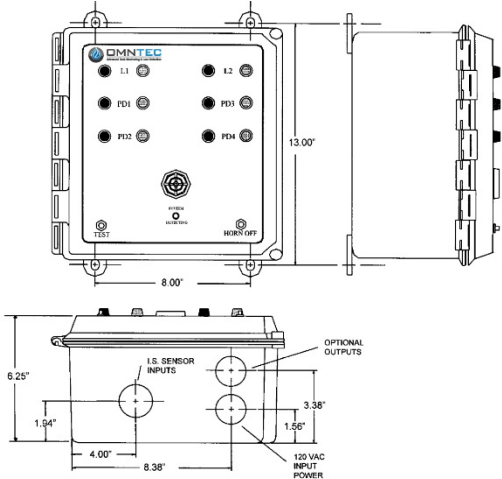


LU9



L2PD4

L3PD6 dimensions are same as L2PD4



Note: Current published specifications are subject to change without notification.

Verify specifications with manufacturer.

For additional information consult factory or pricelist.

Specifications

Enclosure:	NEMA 4X	
Power Input:	85-125 VAC, 47-440 Hz 16 watts maximum	
Power to Sensor:	2 VDC @ 13 mA Intrinsically safe for Class I, Group D hazardous locations	
Sensor Cable:	Shielded 22 AWG with drain wire (OMNTEC EC-4 or EC-12) Maximum length 2,000 feet	
Audio-visual Controls:	Audible alarm: 95 dB pulsing horn Red lights: High level alarm (L-Series) Liquid-leak alarm (LWF and LS-ASC) Amber Light: Low level alarm (L-Series) Water-leak alarm (PD-Series) Green light: Power is on (system detecting) Horn-off button: Silences horn (auto time-out also included) Test button: Tests entire system electronics, from sensors to control panel	
Response Time:	Immediate	
Relay Outputs:	SPST normally open dry contact 0.5 amp, 120 AC Switches when an alarm condition occurs (1 per sensor up to LU3)	
Low-voltage Outputs:	12 VDC	
Operating Temperature:	0 to 140° F	
Compatible Sensors*: <i>(see sensor chart)</i>	L-1-Series L-2-Series LS-ASC LWF PDS PDWF PDWS	For high liquid level For high liquid level and caution level or high liquid level and low liquid level For liquid-leak detection in both under- ground and aboveground applications for double-wall dry interstice of Xerxes 4-foot fiberglass tanks For double-wall fiberglass dry interstice For product distinguishing liquid-leak detection For double-wall fiberglass dry interstice For double-wall steel dry interstice
<i>* Additional sensor applications available with SP and OW controllers</i>		
Accessories:	RA-1* RA-2* RA-3* RA-4* RA-NYS	
<i>* Number denotes number of tanks or alarms</i>		
Weight:	LU1 - 5 lb. LU2 - 6 lb. LU3 - 6 lb. LU4 - 6 lb. LU6 - 6 lb. LU9 - 9 lb.	L1PD2 - 6 lb. L2PD4 - 9 lb. L3PD6 - 9 lb.
Approvals:	U.L. listed 5L04 Third-party certified	



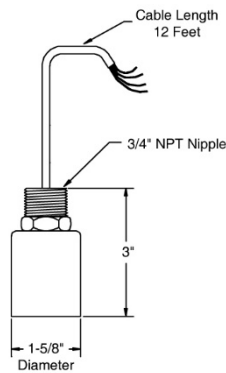
Leak-Detection Sensors



OMNTEC sensors are most known for their ease of installation, reliability, cost-effectiveness and remote testability. Electro-optic technology provides accurate and continuous monitoring. Ruggedly constructed, these solid-state sensors are UL listed and Third-party certified. A distinguishing feature of OMNTEC sensors is that they can be tested remotely with the press of a single button.

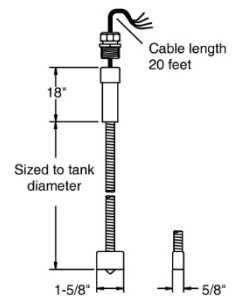
LS-ASC General Purpose Sensor for Double-Wall Steel Tanks

The LS-ASC non-distinguishing sensor was designed to accommodate a variety of applications. With its convenient size and ability to detect liquids at any angle, the LS-ASC sensor is the ideal sensor for sumps, dispenser pans, containment areas and annular spaces of double-wall steel tanks. For product distinguishing use part number PDS for general purpose or PDWS for double-wall steel tanks.



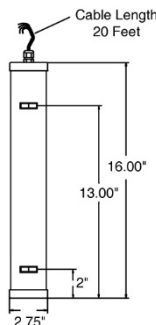
LWF Sensor for Dry Double-Wall Fiberglass Tanks

The LWF non-distinguishing sensor was designed to fit into the annular space of dry double-wall fiberglass tanks. With its slim, compact shape and flexible snake-like shaft, the LWF can easily be installed and removed from grade. When ordering, the part number will denote tank diameter. For product distinguishing use part number PDWF.



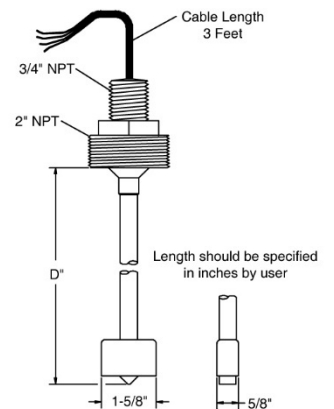
L-R-1 Sensor for Brine-Filled Double-Wall Tanks

The dual-point L-R-1 sensor is designed for double-wall brine-filled fiberglass tanks. This sensor is made of nonmetallic corrosion-resistant materials. An alarm is activated to signal changes in reservoir-liquid level beyond acceptable limits (high or low).



L-Series Product Level Sensor

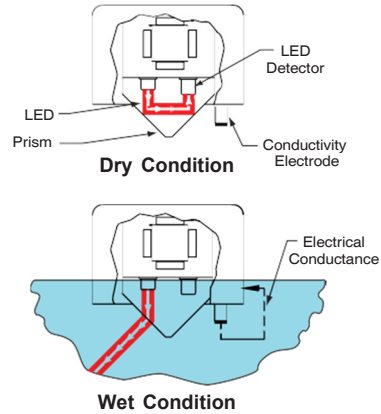
The L-series sensors are designed to provide product-level alarms for high, caution or low product levels. L-series sensors can be remotely tested without removal. This sensor is available with multiple alarm points.



Sensor Specifications

Power Consumption:	2 VDC @ 13mA
Sensor Cable:	Shielded 22 AWG with drain wire (2000ft maximum) (OMNTEC EC-4 or EC-12)
Principles of Operation:	
Normal Condition:	Normally closed beam of light
Alarm Condition:	Normally closed beam of light opens (refracts)
Water Condition:	Conductivity electrode (PDS, PDWS and PDWF only)
Response Time:	Immediate
Operating Temperature:	-15 to 140°F
Approvals:	U.L. listed, Third Party Approved

Electro-optic Technology with Conductivity for Product Distinguishing



SENSOR	APPLICATION	CONTROLLER	PRODUCT DISTINGUISHING
LS-ASC	leak sensor *	LU	NO
LWF	double-wall dry fiberglass	LU	NO
L-1-L,S,D	high level	LU or LPD	NO
PDWF	double-wall dry fiberglass	LPD	YES
PDS	leak sensor *	LPD	YES
L-R-1	reservoir	LPD	NO

** Liquid leak-detection sensors for areas such as double-wall steel tanks, sumps, containment areas, and dispenser pans.*

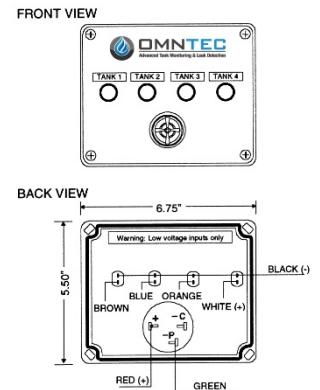
Remote Annunciators



Features

- Easily installed
- No external power required
- Tests remotely
- NEMA 4X weatherproof, corrosion-resistant
- LED indicators rated MTBF 11 years
- High-decibel audible alarm
- U.L. listed
- Cost effective

Enclosure:	NEMA 4X (W) 6.75 x (H) 5.50 x (D) 3.75
Power Input:	12 VDC @ 200 mA maximum
Audio-visual Controls:	
Audible alarm (RA-Series):	95 dB pulsing horn
Audible alarm (RA-NYS):	110 dB pulsing horn
Red lights:	Liquid-high level alarm
Horn-off button on controller:	Silences horn
Response Time:	Immediate
Operating Temperature:	0 to 140°F
Compatible Controllers:	
	LPD-Series
	LU-Series
Wire:	22 AWG minimum
Weight:	1 lb.
Approvals:	U.L. listed 5L04



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