



Description

OMNTEC sensors are most known for their ease of installation, reliability, cost-effectiveness and their ability to be tested remotely. Bright Eye sensors (BX-series) are self-diagnostic, and programmed to identify themselves and their location, providing the user with critical information.

Each sensor can recognize its unique serial number, part number and function. It accomplishes this via an internal microprocessor that enables it to distinguish itself from the other sensors on the system. This information is then relayed back to the OEL8000II controller, eliminating the need to guess where a leak condition is occurring.

Built with four-wire buss technology, up to 22 Bright Eye (BX-series) sensors can be networked along a common cable. (A total of 44 Bright Eye sensors can be used with the OEL8000II.) This eliminates the need to run separate lines for every sensor, which results in fewer conduits, and a quicker, less expensive and easier installation. In addition, systems already installed can be easily retrofitted without the need to run new cable.

A major feature of these sensors is that they can be tested from a remote location with the

press of a single button, which has been third-party certified.

Features

- Self-identifying by part number, serial number and function
- Self-diagnostic
- Easily installed
- Minimal conduit needed
- Minimal programming required
- Product-distinguishing or liquid-only detection
- Easily tested without removal
- Corrosion-resistant
- Not affected by hydrocarbon vapors or condensation
- Intrinsically safe
- Detects liquids at any angle
- No moving parts
- Modified sensors available
- Cost-effective
- Third-party certified
- UL-listed, CUL-listed, CE-listed

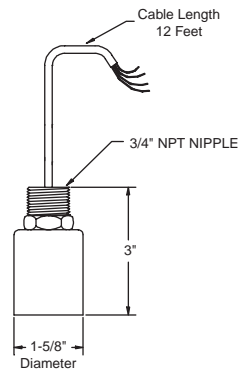
Product-Distinguishing Leak-Detection Sensors



The OMNTEC BX-series product-distinguishing sensors employ proven optic technology for leak detection coupled with the principle of conductivity to distinguish between product and water. An internal microprocessor enables the BX-series sensors to be self-diagnostic and self-identifying. Each sensor can recognize its serial number, part number and function. This allows the controller to differentiate one sensor from another on the network and relay critical information to the user.

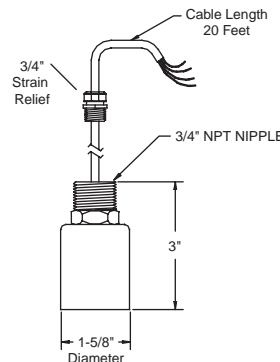
BX-PDS General Purpose Sensor

The BX-PDS was designed to accommodate a variety of applications. With its convenient size and ability to detect liquids at any angle, the BX-PDS sensor is the ideal sensor for sumps, dispenser pans and containment areas.



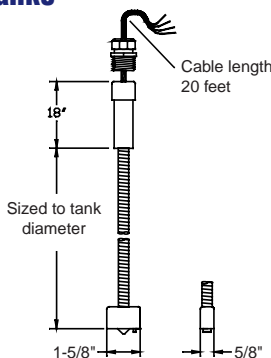
BX-PDWS Sensor for Double-Wall Steel Tanks & Xerxes 4'-Diameter Dry Double-Wall Fiberglass Tanks

The BX-PDWS was designed to fit into the annular space of steel double-wall tanks. It can distinguish liquid hydrocarbons from water, and, like all BX-series sensors, can be remotely tested without removal.

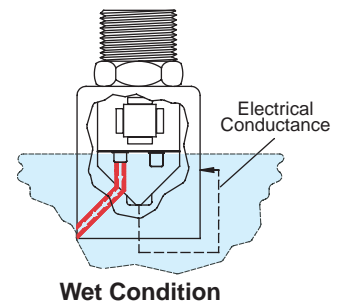
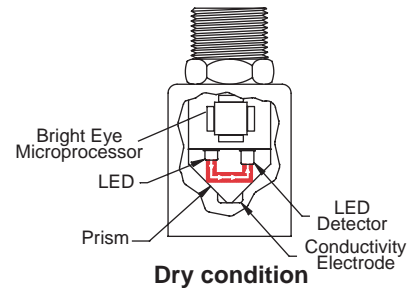


BX-PDWF Sensor for Dry Double-Wall Fiberglass Tanks

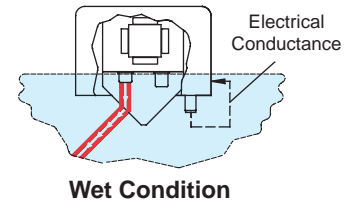
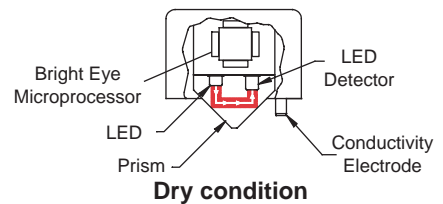
The BX-PDWF was designed to fit into the annular space of dry double-wall fiberglass tanks. It can distinguish liquid hydrocarbons from water, and, like all BX-series sensors, can be remotely tested without removal. With its slim, compact shape and flexible snake-like shaft, the BX-PDWF can easily be installed and removed from grade. (When ordering, the part number will denote tank diameter.)



Principles of Operation for BX-PDS and BX-PDWS



Principles of Operation for BX-PDWF



Nondistinguishing Leak-Detection Sensors



OMNTEC BX-series nondistinguishing sensors employ proven optic technology for leak-detection applications. An internal microprocessor enables these sensors to be self-diagnostic and self-identifying. Each sensor can recognize its serial number, part number and function. This allows the controller to differentiate one sensor from another on the network and relay critical information to the user.

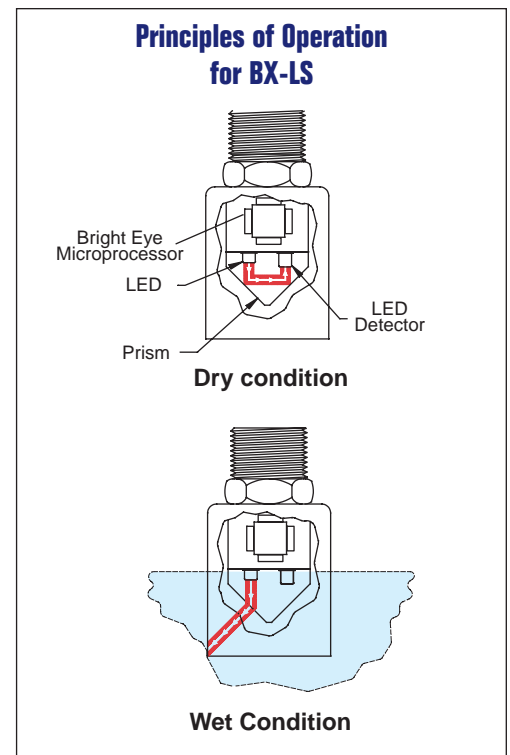
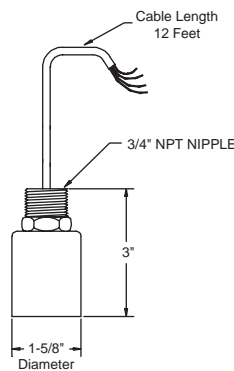
BX-LS

General Purpose Sensor

Sensor for Double-Wall Steel Tanks &

Xerxes 4'-Diameter Dry Double-Wall Fiberglass Tank

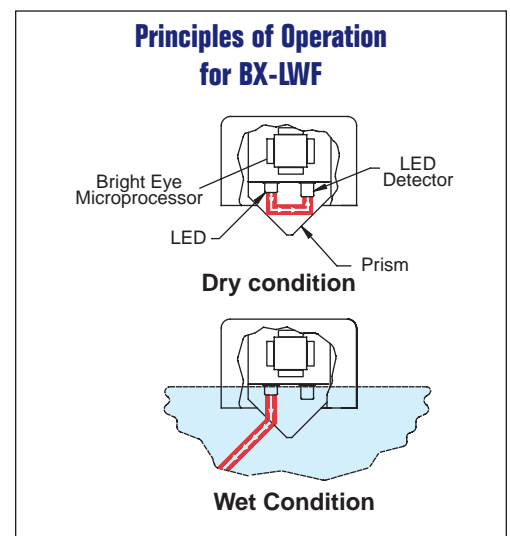
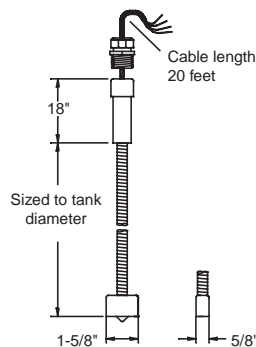
The BX-LS nondistinguishing sensor was designed to accommodate a variety of applications. With its convenient size and ability to detect liquids at any angle, the BX-LS sensor is the ideal sensor for sumps, dispenser pans, containment areas and annular spaces of double-wall steel tanks.



BX-LWF

Sensor for Dry Double-Wall Fiberglass Tanks

The BX-LWF nondistinguishing 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 BX-LWF can easily be installed and removed from grade. (When ordering, the part number will denote tank diameter.)



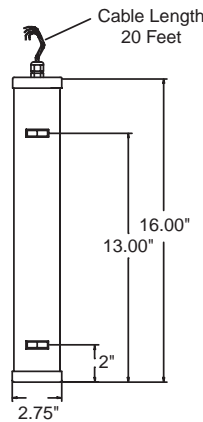
Leak-Detection Sensors for Other Applications



BX-RES

Sensor for Brine-Filled Double-Wall Tanks

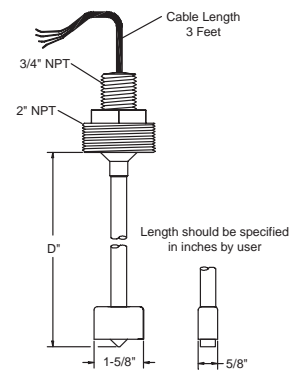
The dual-point BX-RES sensor is designed for double-wall brine-filled fiberglass tanks. This sensor is made of non-metallic corrosion-resistant materials. An alarm is activated to signal changes in reservoir-liquid level beyond acceptable limits (high or low).



BX-L-Series

Product-Level Sensor

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

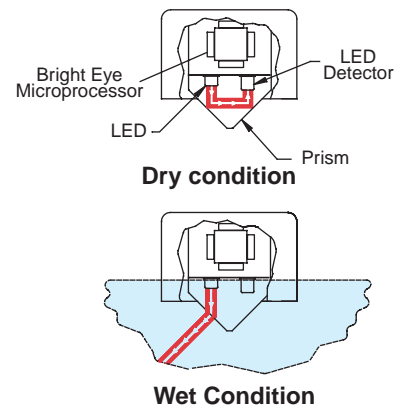


Specifications for BX-Series Sensors

Power Consumption:	12 VDC @ 1.4 mA
Sensor Cable:	Shielded 22 AWG with drain wire (OMNTEC EC-4) Maximum length 2,000 feet
Principles of Operation:	
Normal Condition:	Normally closed beam of light
Alarm Condition:	Normally closed beam of light opens (refracts)
Water Condition (BX-PDS, BX-PDWS and BX-PDWF only):	Conductivity electrode
Response Time:	Immediate
Operating Temperature:	-15 to 140° F
Compatible System:	OEL8000II
Approvals:	UL-listed, CUL-listed, CE-listed

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

Principles of Operation for BX-RES and BX-L-Series



For technical information:



OMNTEC Mfg., Inc.
1993 Pond Road
Ronkonkoma, New York 11779
Phone: 631-981-2001
Fax: 631-981-2007
Email: omntec@omntec.com
Web Site: www.omntec.com