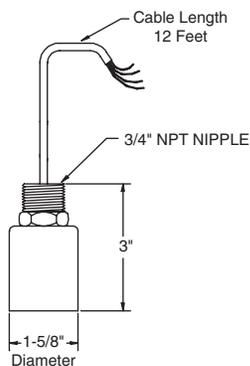
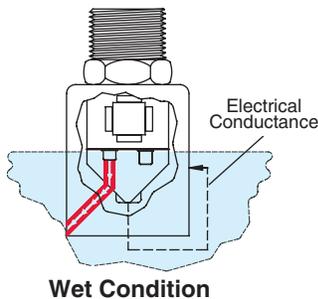
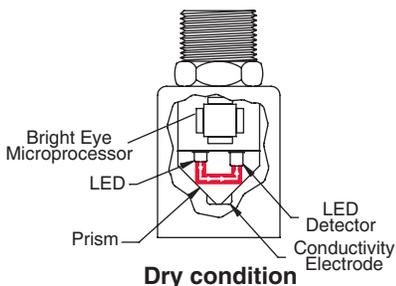




### Principles of Operation



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### 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.

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.

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.

### Specifications for BX-Series Sensors

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

*Note: Current published specifications are subject to change without notification. Verify specifications with manufacturer. \*Please consult factory for additional compatible controllers.*

### Features

- Self identifying by part number, serial number and function
- Self diagnostic
- Easily installed
- Minimal conduit needed
- Minimal programming required
- Product distinguishing
- 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