

Low Profile, Self Diagnostic, Addressable, Photoelectric Smoke Detectors with CleanMe™

Description

The 521LX and LXT Smoke Detectors are the industry's first conventional smoke detector with analog features such as remote maintenance reporting (CleanMe™), drift compensation, and multi-criteria detection. Additionally, the smoke detectors contain a single point, addressable module which allows connection to the LX-Bus™ of an XR200 Command Processor™ Panel. The 521LXT also incorporates a heat sensor for fire detection. The multi-criteria, fast response, heat detector algorithms allow the 521LXT to give fast response to a broad range of fires.

CleanMe™ Remote Maintenance/Trouble Reporting Feature

The 521 has a unique feature that allows it to send a signal when the smoke chamber has drifted outside UL Listed sensitivity ranges or a hardware fault exists. In most cases, the signal will be the result of the detectors becoming dirty over time and, as a result, are over sensitive. This condition could result in false alarms. The CleanMe™ signal enables the XR200 control panel to receive a service signal, allowing an installer time to clean the detectors by replacing an inexpensive optical chamber with a new one. This service information can also be transmitted to the Central Station.

Drift Compensation Built-in

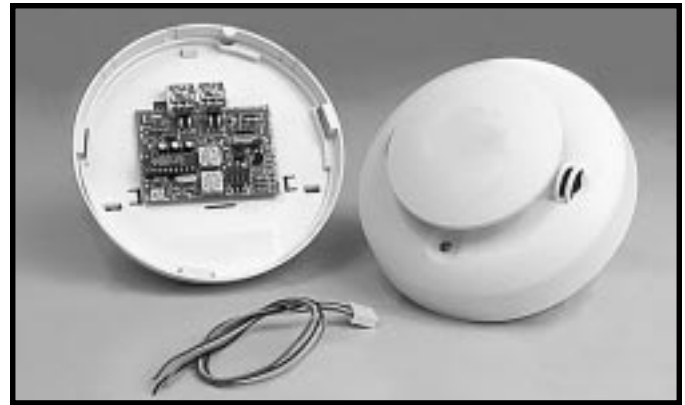
Built-in drift compensation means the 521 detectors will automatically adjust their sensitivity, up to a maximum of 1.0%/ft., as they become dirty. This feature increases immunity to dust and dirt by 30-50%. The DMP 521 detectors are the industry's first 12 VDC addressable smoke detectors with built-in drift compensation.

Sensitivity Level Test Mode

Each smoke detector also includes a special sensitivity level test mode that is activated by holding a magnet near the integral reed switch for more than one second. Once the routine starts, the alarm LED will flash one to nine times, indicating actual sensitivity and if service is required.

Compatible with LX-Bus™ Systems

The 521 can be used on the LX-Bus™ of the XR200 Command Processor™ panel. Each detector connects to the 4-wire bus and uses one zone address. Addressing the detectors is simple using the two on-board rotary switches and a small slotted screwdriver. Up to 100 individual detectors can be supervised on one DMP LX-Bus™. More than 40 detectors requires Model 710 Bus Splitter/Repeater Module.



Model 521LX and LXT Smoke Detectors



Features

- CleanMe™ remote maintenance reporting reduces false alarms
- Built-in drift compensation to reduce false alarms
- Field replaceable optical chamber for easy servicing
- LED indicates normal or CleanMe™ condition
- Meets NFPA 72-7-3.2.1 Field Sensitivity Testing
- Easy 4-wire connection to XR200 LX-Bus™
- 521LXT provides multi-criteria heat detector
- Proven design ensures stability and performance
- Easy rotary addressing; no difficult binary switches

Specifications

Operating range	8.8 - 15.0 VDC
Maximum ripple (pk to pk)	10% (V _{p-p})
Standby operating current	8.8 mA
Alarm operating current	28 mA
Sensitivity photoelectric	3.1% +0.50-1.00%
Operating temperature	32°F to 100°F
Operating humidity range	0 to 95% Non-condensing
RFI Immunity	20V/m minimum; 0-1000 MHz
Color	White head and base
Heat sensor (LXT only)	135°F
Rate of rise:	15°F/min and >105°F
Power-up time	15 seconds
Drift compensation adjustment	1.0%/ft. max.
Detector head dimensions:	5" diameter 2" height
Mounting dimensions:	4.75" diameter .3" height
Listings	UL 268

Order Information

Model	Description
521LX	Smoke Detector with LX-Bus Addressing
521LXT	Smoke Detector with LX-Bus Addressing and Heat Detector
525	Replacement Optical Chambers
526	Smoke! in a can®
710	LX-Bus Splitter/Repeater - required if 40 or more detectors are used on one LX-Bus

