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VESDA VLC-600 TRUEALARM LASERCOMPACT

The Model VLC-600 TrueAlarm LaserCOMPACT smoke detector uses the latest in VESDA sampling technology including a highly efficient laser light source and a dual stage dust filter.

TrueAlarm analog sensing - TrueAlarm LaserCOMPACT sensor communicates smoke chamber information to the connected fire alarm control panel. The panel evaluates the smoke sensor information against three programmed thresholds and declares an alarm or pre-alarm condition depending on smoke chamber activity.

Status communications - In addition to smoke chamber information, the TrueAlarm LaserCOMPACT also advises the fire alarm control panel of local trouble conditions. Troubles may include dirty filter, airflow restriction or failure, etc. Specific details are stored in memory at the sensor location.

Filtered air flow - A high efficiency aspirator continually draws air through a simple pipe network to a central detector. Air entering the sensor housing passes a flow sensor before the sample is passed through a dual-stage dust filter. The first stage of the air filter removes dust and dirt from the air sample before it enters the smoke detection chamber. A second, ultra-fine filter stage provides a clean air supply to be used inside the detection chamber to form clean air barriers which protect the optical surfaces from contamination.

Laser detection chamber - The detection chamber uses a stable, highly efficient laser light source and unique sensor configuration to achieve optimum response to a wide range of smoke types. When smoke passes through the detection chamber, it creates light scattering which is detected by very sensitive sensor circuitry. The analog level of the sensor is then communicated to the fire alarm control panel for comparison to pre-selected alarm thresholds.

Status logging - The sensor status history for all alarms, service, and fault events, is monitored and logged with time and date stamps within the electronics of the sensor, accessible via the local computer port. General trouble status indications are communicated to the panel as either sensor troubles or "no answer" troubles.



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