VESDA VLI with Relays and Ethernet Only

Part-No.: VLI-880
Approval: UL, ULC, FM, CCC, ActivFire, CE, LPCB, VdS, NF, VNIIPO

The VESDA VLI by Xtralis is an industry first early warning aspirating smoke detection (ASD) system, designed to protect industrial applications and harsh environments of up to 2000 m2 (21,520 sq. ft.).
Long life, intelligent, fail-safe technology
The VLI detector combines a fail-safe Intelligent Filter (patent pending) with an advanced clean-air barrier for optics protection allowing the use of absolute detection and a long detection chamber life without the need for re-calibration.
The Intelligent Filter:
• reduces the level of pollution in the air sample before it enters the detection chamber, which dramatically extends the operational life of the detector in harsh and polluted environments.
• is fully monitored, providing consistent sensitivity over the entire operational life of the detector.
Installation, Commissioning and Operation
The VLI detector features a robust IP66-rated enclosure which provides complete protection against dust ingress and strong water jets from all directions. In the majority of industrial applications, specifically in very harsh environments, this eliminates the need to use expensive external IP enclosures, thus simplifying and reducing the cost of installation.
The VLI detector is equipped with a powerful aspirator that provides a total pipe length of 360 m (1181 ft). It is fully supported by the Xtralis ASPIRE, VSC and VSM4 software applications which facilitate ease of pipe network design, system commissioning and maintenance together with compatibility with existing VESDA installations.
The AutoLearn™ commissioning assistant reduces setup time and ensures optimum alarm and flow thresholds in a range of environments.
The VLI detector is inherently less prone to nuisance alarms due to the intelligent filter, lint trap, sub-sampling probe and secondary filter. Coupled with its modular design, VLI offers a lower total cost of ownership over the life of the product.

Features:

• Suitable for Class 1 Division 2 applications - Group A, B, C & D
• Up to 4 inlet pipes
• Five high intensity status LEDs for greater visibility
• Robust absolute smoke detection
• Intelligent Filter (patent pending)
• Lint Trap to capture fibrous particulates
• Secondary filter
• Clean air barrier for optics protection
• AutoLearnTM Smoke and Flow
• Clean Air Zero TM
• Air-path monitoring
• Five relays (Fire, Fault and 3 configurable)
• Ultrasonic Flow Sensing
• Absolute smoke detection
• Wide sensitivity range
• Five (5) status LEDs
• VESDAnet communication (VN)
• Clean air barrier optics protection
• Three (3) Alarm Levels
• Three (3) Programmable Relays
• Optional remote display and relay capability
• Simple mounting design

Operating voltage	18 ... 30 V DC
Quiescent current @ 24 V DC	approx. 415 mA
Alarm current @ 24 V DC	approx. 440 mA
Contact load relay	2 A @ 30 V DC NO/NC
Sensitivity	0.005% - 20% obs/m (0.0015% - 6.25% obs/ft)
Connection terminal	0.2 ... 2.5 mm²
Maximum tube length	360 m
Area to be monitored	1600 m²
Ambient temperature	-10 °C ... 55 °C
Type of protection	IP 66
Color	Housing: black, Display: orange, similar to RAL 7035
Weight	approx. 6.035 kg
Specification	EN 54-20, Class A (30 holes, 0.05% obs/m), Class B (36 holes, 0.09% obs/m), Class C (40 holes, 0.165% obs/m)
Dimensions	W: 426,5 mm H: 316,5 mm D: 180 mm

Filter included in detector