

Overview

The V9006-0001-013 Explosionproof Smoke Detector has been designed for use in hazardous industrial and commercial locations. It is a sensitive yet rugged, state-of-the-art, life safety device. The detector is designed to operate effectively with both slow smoldering and fast burning fires.

The V9006-0001-013 detector uses a solid state infrared emitting diode (IRED) and a light sensing photovoltaic cell arranged in a labyrinth assembly. Such an assembly permits free access to smoke but restricts external light. A light beam from an IRED with associated optics is projected across the interior of the labyrinth into a light catcher. A recessed photodiode provides voltage for amplification to "alarm signal" level. The main enclosure of the detector contains the electronics, alarm relay, supervision relay and facilities for connection to system wiring.

For use in combustible storage facilities, munitions manufacturing, volatile chemical storage, chemical processing plants, petroleum refineries, turbine enclosures or any hazardous location where photoelectric smoke detection is required.

Alarm System Connections

Each detector contains one set of Form A (SPST) N/O contacts for connection to the alarm initiating circuit and a set of (SPST) N/C power supervision contacts.

The detector locks in on alarm and has a lock-in alarm indicator (LED) on the outer surface of the housing. Detector reset is achieved by momentary interruption of power.

Standard Features

- Labyrinth assembly
- Self-checking components
- Infrared (IRED) light emitting diode as light source

Explosionproof Photoelectric Smoke Detector

V9006-0001-013



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Specifications

Input	20 - 28V DC
Typical current	10 mA at 77 °F
Alarm current	35 mA
Standby current	10 mA
Residual ripple	less than 2% of DC input
Temperature range	-4°F to 140°F
Maximum air velocity	3960 FPM
Contact rating	2A at 30V DC, 0.5 at 125V AC
Dimensions	5 5/16" Dia. x 3 1/2" deep
Junction box	3/4" Hubs
Agency Approvals	VDE Certified, Designed to meet Class I, Div 1, Groups C & D; Class II, Div 1, Groups E, F & G

Ordering Information

Model Number	Description
v9006-0001-013	Explosionproof Photoelectric smoke detector



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