

PHOTOELECTRIC SMOKE DETECTOR D-213

Model D-213-2H

with heat detector

Model D-213-2



DESCRIPTION

DEMCO Photoelectric Smoke Detector **D-213** with its new sensor design incorporates an internal pulsing LED and a photo-diode at an obtuse angle, is ideal for applications where slow-burning or smouldering fires are likely.

The **D-213** has an advanced solid-state, low-voltage, surface-mount circuitry and are designed for 2-Wire installation using the D3X001 universal base. The detector head is installed into the base with a simple twist-lock action.

The 360-degree detector design permits smoke entry from any direction, and a unique sensing chamber that permits operation in open areas with air velocities from 0 to 300 fpm.

A fine wire mesh extending between offset ports in the exterior and interior walls screens insects from the chamber and obstructs light from passing directly to the interior part.

DEMCO ADVANTAGES

- Certification/Listing-UL, CE and BSI.
- Advanced detection and discrimination algorithms.
- Advanced solid-state, low-voltage, surface-mount circuitry.
- Suitable for the majority of application conditions.
- Easy installation, testing and maintenance.
- Sleek low-profile housing design.
- Flashing LED in standby mode.
- Robust and reliable sensor head.
- Two red LEDs to allow 360-degree viewing.
- A fine mesh insect screen protects the chamber area i.e. to avoid potential nuisance alarms.
- Optional/integrated heat detector for D213-2H and D213-2HL models.

UNIVERSAL BASE

designed for the D-113 and D-213 series of detectors. It is an electronics free base with a simple and robust design that enables a detector to be plugged in without any need for force – particularly useful when installing to suspended ceiling.

Being a common base, it allows detector interchange within the series.



Shown with 2 contact points (D32001).

Shown with 4 contact points (D34001) for a remote LED indicator.

SPECIFICATIONS/OPTIONAL FEATURES

Model	Heat Sensor Setting	Voltage DC (Max./Min.)	Standby Current (Max.)	Alarm Current (12/24V)	Surge Current (Max.)	Start Up Time (Max.)	Permissible Current (Max.)	Cycle Time	Base Model No.	Safety
D-213-2	-	10.8~33V	80µA	22/55mA	160µA	30 Sec.	80mA	1-3 Sec.	D32001	UL/CE
D-213-2L	-	10.8~33V	80µA	22/55mA	160µA	30 Sec.	80mA	1-3 Sec.	D34001	UL/CE
D-213-2H	135±5F	10.8~33V	80µA	22/55mA	160µA	30 Sec.	80mA	1-3 Sec.	D32001	UL/CE
D-213-2HL	135± 5F	10.8~33V	80µA	22/55mA	160µA	30 Sec.	80mA	1-3 Sec.	D34001	UL/CE

Remarks: **L** = Remote LED indicator output / **H** = Heat detector

Smoke Sensitivity	0.98–2.40%FT Obscuration (UL) ; 0.08–0.14 dB/m (EN)
Ceiling Spacing	50-foot rating for heat detector
Temperature Range	-10C to 50C
Humidity	0 to 95% RH, no condensation or icing
Dimensions (H x D)	46 X 100mm with base
Weight	130g/set with base

Specifications are subject to change.



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