Farenhyt

Addressable Multicriteria Smoke Detector

IDP-Acclimate

The IDP-Acclimate Multicriteria Photoelectric Smoke Detector incorporates both thermal and photoelectric technologies that interact to maximize detection. An on-board microprocessor with advanced software focuses on rejecting nuisance alarms. The IDP-Acclimate is for use with Silent Knight IFP-series fire alarm control panels (FACPs).

Using advanced software, IDP-Acclimate continuously samples the air in the environment and adjusts its detection parameters and alarm threshold accordingly. And it does this automatically, without user intervention.

A patented photoelectric sensing chamber and dual thermistor heat detector combine with an array of on-board software tools, to maximize fire detection. In a real fire, the smoke and heat sensors work together to make the quickest possible decision. The photo sensor is optimized for smoldering fires, the heat sensors are rate-of-rise compensated to provide a faster response to flaming fires. The on-board intelligent software combines both signals to give an early alarm.

A dual stage drift compensation feature reduces maintenance frequency. IDP-Acclimate offsets the effects of gradual dust build-up and will notify the control panel before its compensation level is reached, allowing time for maintenance. Once the compensation limit is reached, a second signal is sent to the control panel indicating an urgent need for maintenance.

Features

- Reliable analog communications for trouble-free operation
- Age resistant polymer housing
- Dual electronic thermistor design
- Superior EMI resistance for reliability
- Microprocessor-based design to provide maximum features
- Simple field cleaning for code compliance
- 0.025" mesh bug screen to keep unwanted insects out
- Variety of mounting options to meet any application
- Dual LED indicators for 360º visibility
- On-board drift compensation reduces maintenance
- Detector transmits signal to indicate maintenance is required
- Detector sensitivity increases in hot fires
- Transient smoke conditions are ignored
- Plug-in mounting provides ease of installation
- Tamper-proof feature available on mounting bases
- Rotary address switches for fast installation
- UL Listed

Agency Listings

MEA

225-02-E Vol. V

IDP-Acclimate (Base Not Included)

Installation

The IDP-Acclimate plugs into a compatible IDP-series detector base.

Compatibility

The IDP-Acclimate is compatible with the following IDP-series detector bases:
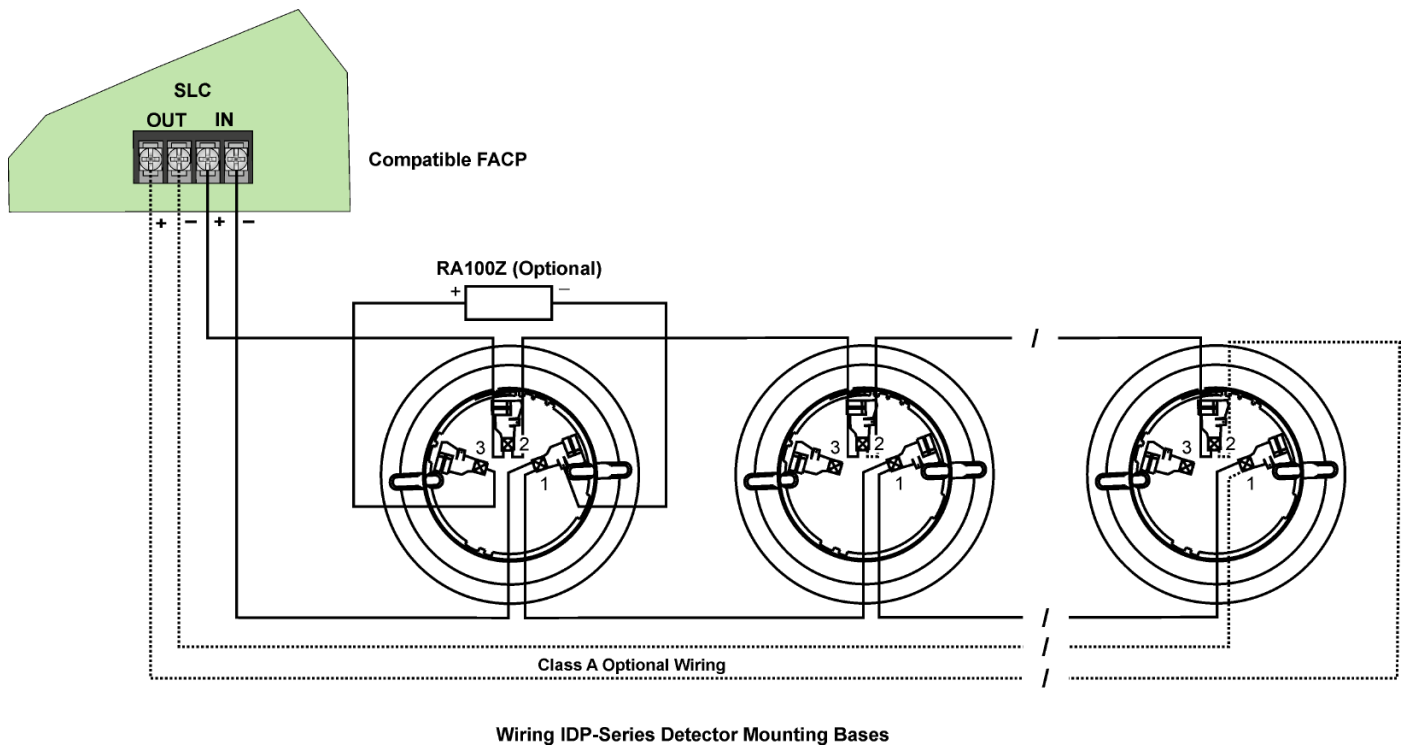
- B210LP   6" Mounting Base
- B501   4" Mounting Base*
- B224BI   6" Isolator Base*
- B224RB   6" Relay Base*
- B200SR   Sounder Base

The IDP-Acclimate is compatible with the following FACPs:

- IFP-2000 / RPS-2000 Intelligent Fire Panel
- IFP-2000ECS Emergency Communication System with Fire Panel
- IFP-1000 / ECS Intelligent Fire Panel
- IFP-100 / ECS Intelligent Fire Panel
- IFP-50 Intelligent Fire Panel

SLC

OUT   IN

Compatible FACP

+ − + −

RA100Z (Optional)

+   −

3 2
1

3 2
1

3 2
1

Class A Optional Wiring

Wiring IDP-Series Detector Mounting Bases

Specifications

Physical
Height: 1.66" (4.2 cm)

Diameter: 4.0" (10.2 cm)

Shipping Weight: 5.2 oz. (147 g)

Electrical
Operating Voltage: 15–32 VDC

SLC Standby and Alarm Current:
   300 µA @ 24 VDC (one communication every 5 sec with LED enabled)

LED Current: 6.5 mA @ 24 VDC max (when on)

Environmental

Operating Temperature: 32º – 100ºF (0ºC–38ºC)

Humidity: 10% – 93% non-condensing

Other Ratings
Thermal: Fixed Temperature Setpoint: 135ºF (57ºC)

Velocity: 0 – 4000 fpm (0 – 6.1 m/sec)

Insect Screen Hole Size: 0.025" (0.64 mm) nominal

Ordering Information

IDP-Acclimate   Multicriteria Photoelectric Smoke Detector

Accessories

RA100Z   Remote LED Annunciator.

XR2B   Detector Removal Tool. A removal and replacement tool for IDP plug-in detectors. Includes the T55-127-000.

M02-04-01   Detector Test Magnet.

M02-09-00   Test Magnet with Telescoping Handle.

XP-4   Extension Pole for XR2B. Extends from 5 – 15 ft.

T55-127-000   Detector Removal Head.

BCK-200B   Black Detector Kit. For IDP-series detectors.

SILENT KNIGHT
by Honeywell