Integlex Multicrest ™
fire alarm system

FDKU012-PSA
PHOTOELECTRIC SMOKE DETECTOR

Features

- Low profile, less than 2 inches with the base
- Wide Sensitivity Range of 3.4 to 12.0 %/m (1.05 to 3.82%/foot)
- True Analog Detector
- UL listed Smoke Calibration and Sensitivity
- Optional Locking tab to prevent unwanted removal
- Simple and Accurate Address Setting without mechanical switches
- LEDs for 360° Viewing

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Description

The Photoelectric Smoke Detector (FDKU012-PSA) is an Analog/Addressable smoke detector compatible with any fire alarm control panel of Integlex Multicrest series. The FDKU012-PSA is a low profile smoke detector with a wide sensitivity range. The detector and base (not included) are made of a durable plastic in an eggshell white (off white) to blend in with the ceiling.

The FDKU012-PSA has a sensitivity range of 3.4 to 12.0 %/m (1.05 to 3.82% per foot) and is UL and cUL listed. The FDKU012-PSA can be configured for drift compensation and has built in dirty detector warning as well as. The FDKU012-PSA and the control panel communicate over a proven and robust digital communication path and the system analyzes the level of alarm at the particular device. The total polling speed is less than five (5) seconds, well under the UL requirements.

The FDKU012-PSA has two LEDs that allow for 360° viewing. The detector is compatible with any of the /Nohmi bases and simply twists on. The FDKU012-PSA is addressed using the hand held programmer or the control panel addressing function.

Ordering Information

Model no. FDKU012-PSA

Air Velocity Ratings

The FDKU012-PSA has an Open Area of Protection air velocity rating of 0 to 91.4 m(300 feet) per minute.
The FDKU012-PSA is UL/ULC listed on maximum 9.1m(30 feet) spacing limitation on smooth ceiling.
Refer to NFPA 72 for specific information regarding detector spacing, placement, and special applications.

Specifications

No.	Item	Specification
1	Working voltage range	22.0 to 24.0V
2	Standby current	250 µA
3	Alarm indicator	2 LEDs
4	Alarm indicator current	1.2 mA D.C.
5	Alarm set-point range	3.4 to 12.0 %/m (1.05 to 3.82 %/foot)
6	Installation temperature range	0°C to 49°C (32°F to 120°F)
7	Operating relative humidity range	0% to 93% (Non-condensing)
8	Start-up time	Max. 1 sec.
9	Color	Eggshell White
10	Weight (without base)	84g (2.96 oz)
11	Dimensions (without base)	Height: 34mm (1.33 inch) Diameter: 99mm (4.0 inches)

Setting the Address

Each addressable module, smoke detector, heat detector and combination detector must have the address set before connecting the device to the Signaling Line Circuit (SLC) loop. The address is set using the hand held device programmer or the addressing feature on the control panel.
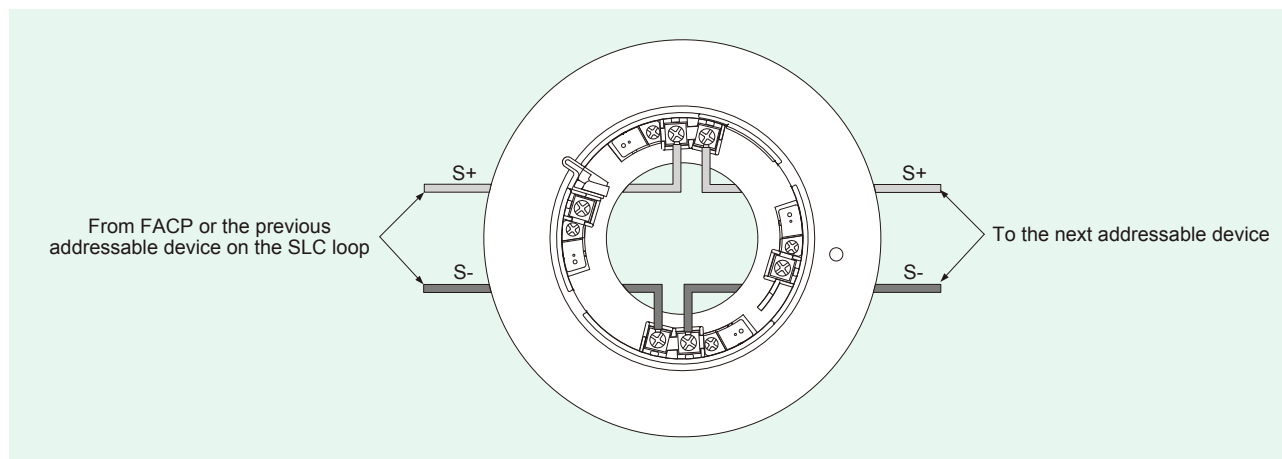
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Compatible Bases

All bases will mount on a single gang, double gang, octagon, 4 inches square or mud ring electrical box.

No.	Device	Description
1	FZBU004-AB4	4 inches Standard Base
2	FZBU003-AB6	6 inches Standard Base
3	FZBU005-AIB	6 inches base that as an isolator module included. The base is pre-wired with a pluggable jumper to the module.
4	FZBU005-ARB	6 inches base that includes a dual relay module. One relay is rated for 8 amps at 240 VAC/30 VDC and the second is rated for 2 amps at 240 VAC/30 VDC. The base is pre-wired with a pluggable jumper to the module.
5	FZBU005-ASB	6 inches base with sounder module included. Sound pattern is provided from external source. The base is pre-wired with a pluggable jumper into the module.

Wiring Diagram

Typical wiring of detector base onto which detector is mounted.

From FACP or the previous addressable device on the SLC loop

S+
S-

To the next addressable device

S+
S-

NOTICE

- These instructions do not purport to cover all the details or variations in the equipment described, not provide for every possible contingency to be met in connection with installation, operation and maintenance.
- Specifications are subject to change without notice. Contact Nohmi before relying on above specifications.
- Actual performance is based on proper application of the product by a qualified professional.
- Should further information be desired or should particular problems arise, which are not covered sufficiently for the purchaser's purpose, the matter should be referred to Nohmi or a distributor in your region.

Contact