

SPOT TYPE ULTRA-VIOLET FLAME DETECTOR

MODEL FDU011-X

OPERATION MANUAL

NOHMI BOSAI LTD.

CONTENTS

1. GENERAL	2
2. FEATURES	2
3. SUITABLE APPLICATION	3
4. CAUTIONS ON INSTALLATION	3
5. SPECIFICATIONS	4
6. NOMINAL MONITORING AREA	4

1. GENERAL

The FDU011-X ultraviolet spot type flame detector detects a fire by sensing the ultraviolet rays radiated from flame caused by a fire. The detector employs the ultraviolet sensor, which senses the frequency from 180nm to 260nm, and is able to detect a fire at the early stage.

2. FEATURES

- 2-1. The detector can be installed in high ceilings in which the ordinary smoke or heat detectors are not allowed to be installed. Also it is able to monitor much wider area and detect a fire earlier than the ordinary detectors.
- 2-2. The detector is suitable for installing in indoors because it is not likely to be affected by the incandescent lamps or fluorescent lamps due to the ultraviolet sensor's characteristics of sensing very narrow frequency range of the ultraviolet rays. (See FIG. 1)
- 2-3. The detector does not require a dedicated fire alarm control panel. It is compatible with standardized NOHMI FACPs and base. (For more details, see section 5.)
The detector is designed to be installed on the ceilings and/or walls.

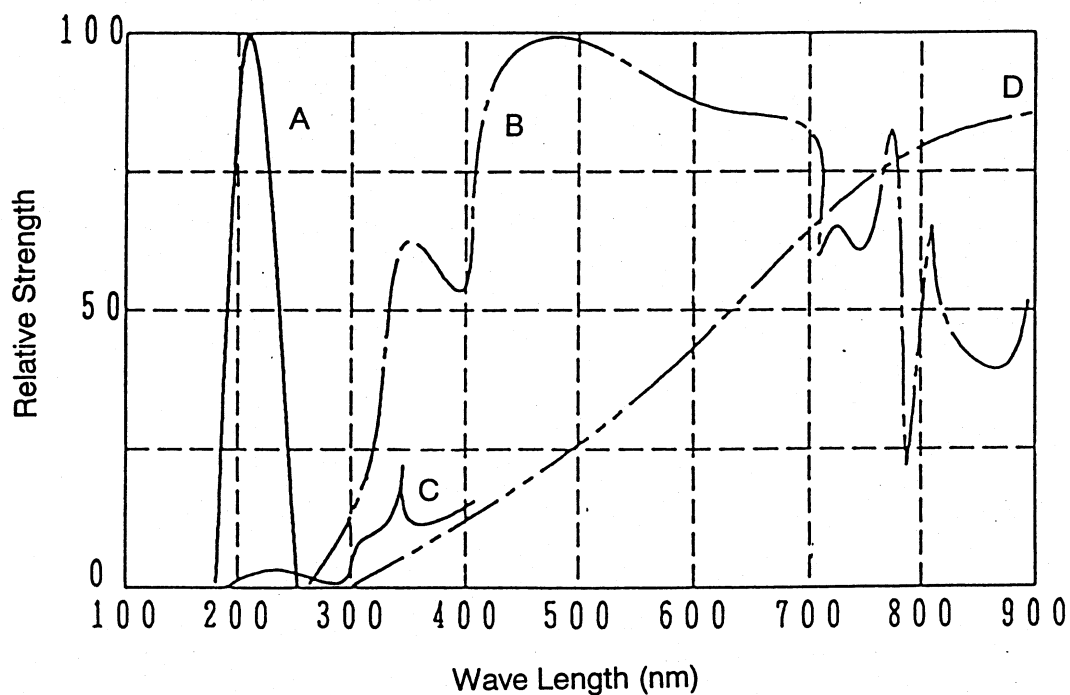
FIG. 1 Spectrum Characteristics

A : Ultraviolet Sensor

B : Sunlight

C : Flame City Gas

D : Incandescent Lamps



5. SPECIFICATIONS

Model	FDU011-X
Type	Ultraviolet Spot Type Flame Detector, Non Water-Proof Type
Nominal monitoring distance	25m (25 to 30m, depending on the ultraviolet sensor's direction)
Nominal viewing angle	100°
Rated voltage and current	24VDC, 70mA
Operating voltage	17 to 30VDC
Current consumption during monitoring	Approx. 65 μ A
Response Lamp	Red Light Emitting Diode
Operating Voltage	-10°C to 50°C
Compatible FACP / Transmitter	NOHMI conventional fire alarm control panels and NOHMI addressable transmitters for analog addressable system
Maximum number of detectors	20 pieces per line
Compatible base	FZB013-4
Main material	Body, ACS resin, light gray Cover ACS resin, light gray Base Polycarbonate resin, light gray
Weight	Approx. 140g
Others	Universal mounting stand (ZBU-T1) and wall mounting bracket (ZBU-K1) are required when installing the detector so that the monitoring direction is changed arbitrary.

6. NOMINAL MONITORING AREA

Refer to FIG. 3 for the area the detector is able to cover.

FIG. 3 MONITORING AREA

