

# RATE-OF-RISE DETECTOR

# FDP SERIES

## SURFACE MOUNTING TYPE



## RECESS MOUNTING TYPE



### FEATURES

- Conventional type
- 2-wire system
- Alarm response lamp (LED)
- Simple mounting
- Easy maintenance
- Low profile
- Approved by Japan Fire Equipment Inspection Institute

### DESCRIPTION

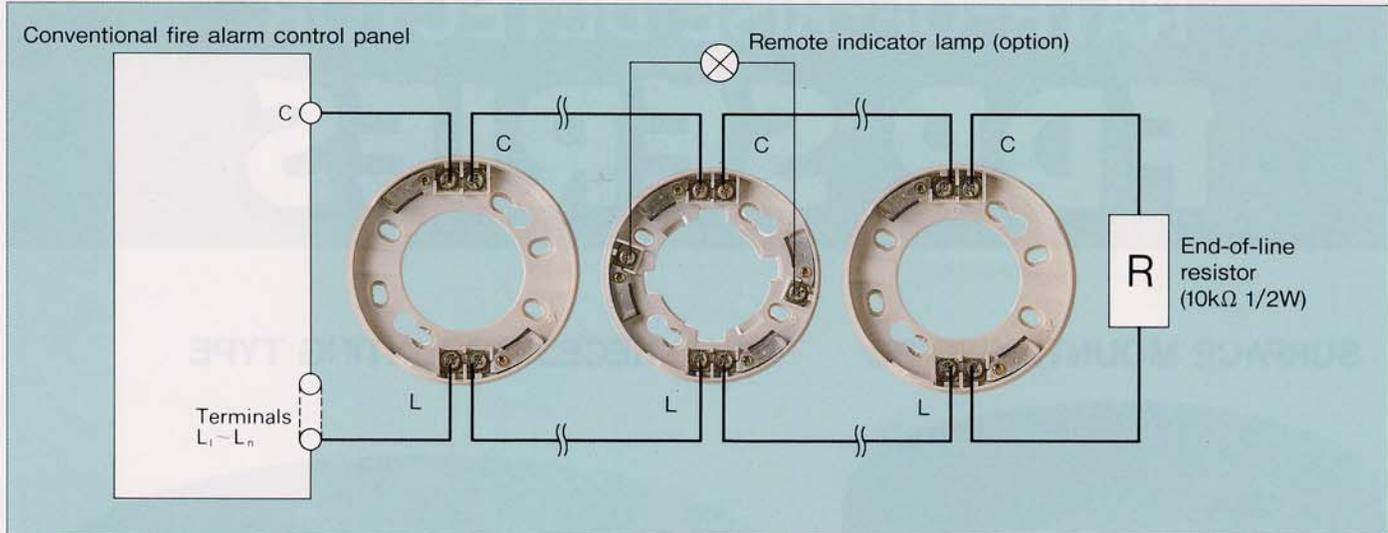
The FDP series rate-of-rise detectors operate on the pneumatic principle, i.e. the expansion of heated air in the air chamber, and respond to rapid rise in temperature caused by fire. A slow or gradual temperature rise as would result from a heating system in the building does not activate the detector because any moderate excess air is released into the atmosphere through the air vent. By the use of a common base, the FDP series rate-of-rise detectors are interchangeable with NOHMI smoke detectors (FDS series and FDK series). This interchangeability enables optimum detector types to be chosen for protected areas in case of change in the use of the rooms. The detector is equipped with a response indicator by which it is possible to readily identify the alarming detector. This feature facilitates the functional check of the detector.

### SPECIFICATIONS

Model no.	FDP119A	FDP219A
SENSITIVITY	Class 1	Class 2
RATED VOLTAGE AND CURRENT	30VDC, 75mA	
ALLOWABLE RANGE OF VOLTAGE	15V to 30VDC	
RESPONSE LAMP	LED (Red)	
AMBIENT TEMPERATURE	-10 to 50°C	
MATERIALS	Air chamber: Tinned steel plate White baked melamine Base: White polycarbonate resin	
WEIGHT	Approx. 160g	

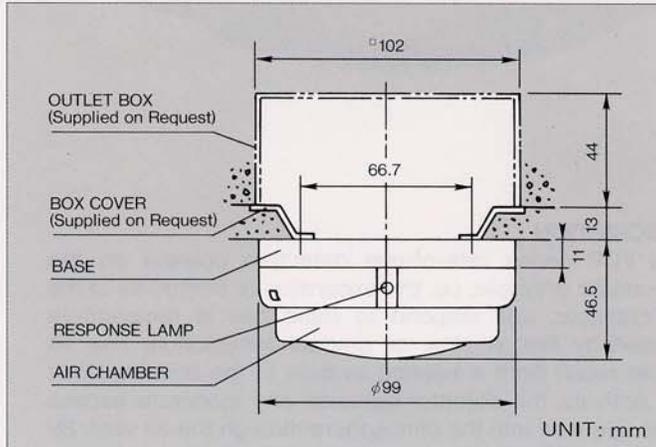
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## TYPICAL WIRING DIAGRAM

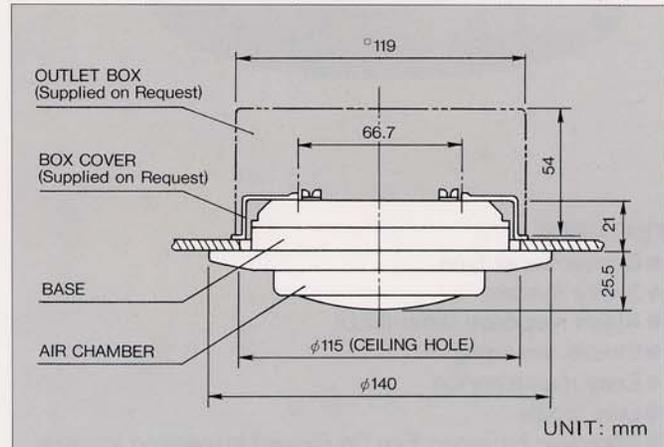


- Maximum number of detectors to be connected: No limit.
- Wire connection: Remove the insulation of the wire ( $\phi 0.5 \sim 2.0\text{mm}$ ) to 10mm from its end, insert the bare wire into the terminal hole and tighten the screw.
- External wire resistance: Less than  $50\Omega/\text{Loop}$

## TYPICAL MOUNTING (SURFACE MOUNTING TYPE)



## TYPICAL MOUNTING (RECESS MOUNTING TYPE)



The detector is fixed to the box cover by means of two screws 4M.

## SENSITIVITY CLASSIFICATION

CLASS	RATE OF TEMPERATURE-RISE
Class 1	10c°/min.
Class 2	15c°/min.

## COVERAGE AREA PER DETECTOR

Distance Between Floor and Mounting Surface		Class 1	Class 2
		Less than 4m	Fire-Resistant Building: 90m <sup>2</sup> Other Building: 50m <sup>2</sup>
4m~8m	Fire-Resistant Building	45m <sup>2</sup>	35m <sup>2</sup>
	Other Building	30m <sup>2</sup>	25m <sup>2</sup>

## ORDERING INFORMATION

Model no.	DESCRIPTION	Model no.	DESCRIPTION
FDP119A	Class 1 detector head	FZB013-2	Surface mounting base for FDP119A/119A-T/219A/219A-T
FDP219A	Class 2 detector head	FZB013-4	Surface mounting base for FDP119A-X/119A-S/219A-X/219A-S
FDP219A-T	Detector head with testing mechanism	FZB053A-2	Recess mounting base for FDP119A/119A-T/219A/219A-T
FDP219A-X	Detector head with a remote indicator lamp circuit	FZB053A-4	Recess mounting base for FDP119A-X/119A-S/219A-X/219A-S
FDP219A-S	Detector head with a dry contact circuit		

Note) -T, -X and -S are not applicable to FDP119A.

- This literature is provided for information only.
- Actual performance is based on proper application of the product by a qualified professional.
- Product details are subject to change without notice.

**NOHMI**  
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