

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.

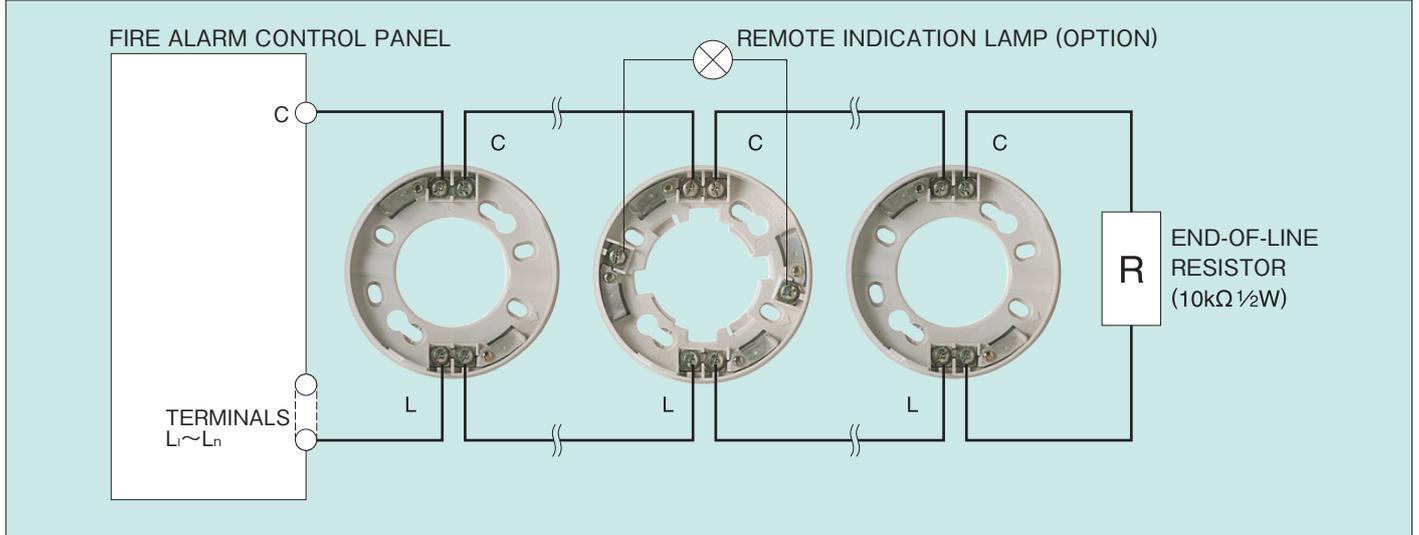
SPECIFICATIONS

Model No.	FDP119A	FDP219A	FDP219A-T	FDP219A-X
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			Approx. 185g

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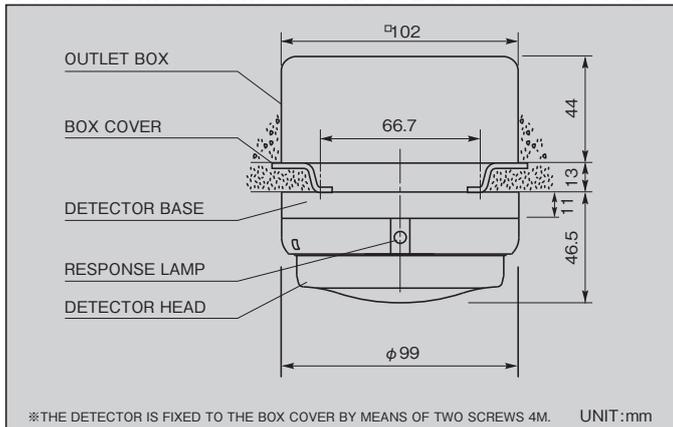
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TYPICAL WIRING DIAGRAM

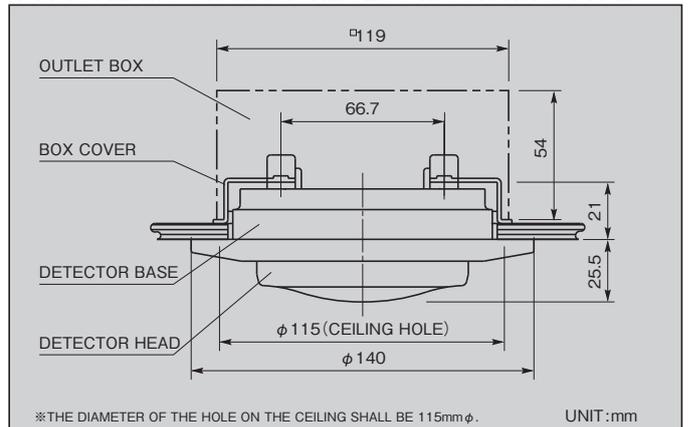


- Maximum number of detectors to be connected : No limit.
- Wire connection : Remove the insulation of the wire ($\phi 0.5 \sim 2.0\text{mm}$) by 10mm from its end, insert the bare wire into the terminal and tighten the screw.
- External wire resistance : Less than $50\Omega/\text{line}$

TYPICAL MOUNTING (SURFACE MOUNTING TYPE)



TYPICAL MOUNTING (RECESS MOUNTING TYPE)



SENSITIVITY CLASSIFICATION

CLASS	SMOKE DENSITY
CLASS 1	10°C/min
CLASS 2	15°C/min

COVERAGE AREA PER A DETECTOR

CEILING HEIGHT	CLASS 1	CLASS 2
Less than 4m	90m ²	70m ²
4m~8m	45m ²	35m ²

ORDERING INFORMATION

Model no.	DESCRIPTION	Model no.	DESCRIPTION
FDP119A	Detector head : class 1	FZB013-2	Detector base: Surface mounting type
FDP219A	Detector head : class 2	FZB053-2	Detector base: Recess mounting type
FDP219A-T	Detector head : class 2 with testing mechanism		
FDP219A-X	Detector head : class 2 with remote indication circuit	FZB013-4	Detector base: Surface mounting type for remote indication
		FZB053-4	Detector base: Recess mounting type for remote indication
		FZB013-4S2	Detector base: Surface mounting type for dry contact
		FZB053-4S2	Detector base: Recess mounting type for dry contact

- These instructions do not purport to cover all the details or variations in the equipment described, nor 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 purposes, the matter should be referred to Nohmi or a distributor in your region.

NOHMI
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