

Analog Fixed Temperature & Rate-of-Rise Heat Detector – Model Number FDPL25U



Features:

- UL listed to standard 521
- NFPA Style 4, 6, and 7 applicable for signal line circuit
- Low profile appearance
- Low current design
- Wide range input voltage
- Status LED

Description:

The FDPL25U is an analog combination type heat detector consisting of fixed temperature heat detection functionality and rate-of-rise heat detection functionality. The detector employs thermistor having such a characteristic that its resistance decreases with temperature, as heat sensing element. The detector converts a detected temperature to an analog signal of the corresponding level, and sends it to FACP. For the rate-of-rise heat detection functionality, the detector detects the rate-of-rise heat changing in it, and sends an alarm signal to FACP.

The detector has drift compensation functionality by which the detector is able to self-adjust its sensitivity in a pre-determined range when the sensitivity is drifted by some reason.

The analog detector equips with a red LED that flashes under normal monitoring condition and turns on under alarm condition.

Specifications:

No.	Item	Description
1	Working voltage range	7.8 to 30.7V
2	Standby current	250 μ A
3	Alarm indicator current	1.6mA D.C.
4	Operating temperature range	0 to 38°C (32 to 100°F)
5	Operating humidity range	0 to 93% (Non-condensing)
6	Max. no. of detector per loop	255 units
7	Color	Light gray
8	Weight (without base)	85g (3.00oz)
9	Dimensions (without base)	Height 38mm
		Diameter 99mm

Ordering information:

- Model no. FDPL25U

Compatible detector base:

Model no.	Description
FZB01U-N	6-inch base (The optional relay module, model no. FRL02U, can be mounted on its behind.)
FZB02U-N	4-inch base.

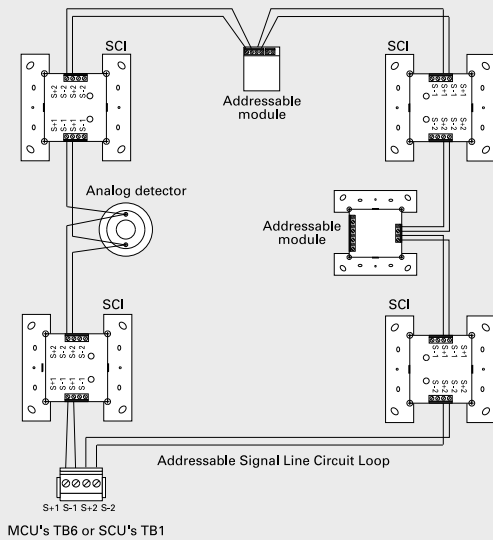
Spacing:

Spacing	Highest Sensitivity	Lowest Sensitivity
Up to 15 ft	57°C (134.6°F)	78°C (172.4°F)
More than 15 ft up to 30 ft	57°C (134.6°F)	77°C (170.6°F)
More than 30 ft up to 50 ft	57°C (134.6°F)	65°C (149.0°F)

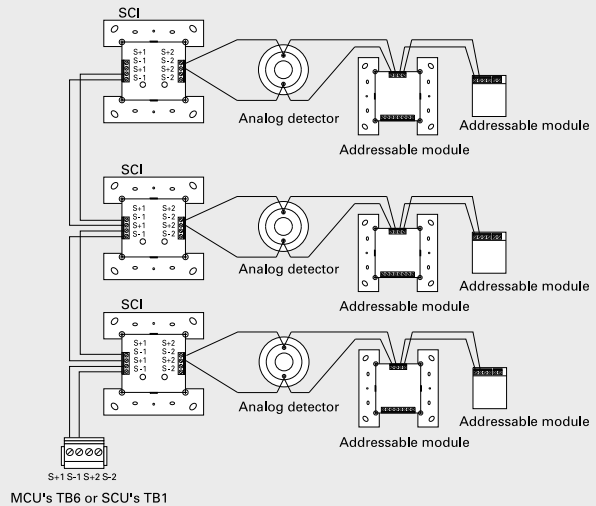
Optional device:

Model no.	Description
FRL02U	Signal transmission relay module to be mounted on the behind of 6-inch detector base FZB01U-N

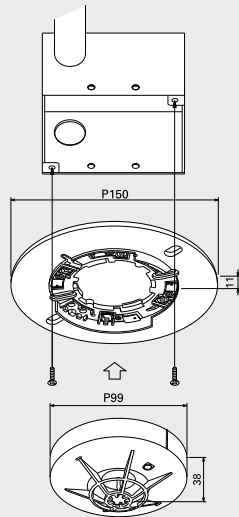
Installation and wiring information:



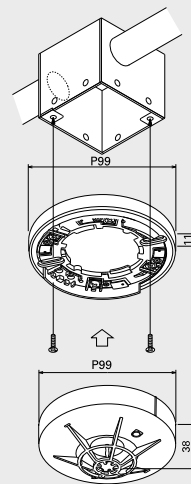
Wiring in NFPA Style 7



Wiring in NFPA Style 4 (example)



Installation with 6-inch base



Installation with 4-inch base

Note:

- 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.

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