

FIRE ALARM PANEL

FAPN105N SERIES

FEATURES

- Conventional type available for 10 and 20 fire zones
- Alarm verification type (Verification time : 60 seconds)
- Various test functions: fire indication test, alarm verification time test, auxiliary power supply test, automatic after-test resetting
- Self-diagnosis system
- Misoperation inhibit function
- Built-in telephone system
- Back-up power supply (Ni-Cd battery, 24VDC)
- Large fire alarm symbol for easy visual recognition
- Fire zone indication by both zone nameplates and a digital display
- History list for last 1,000 events
- 3 auxiliary LED indicators
- General fire alarm cut-off switch
- Functions programmable at site
- Arrow keys for easy database setting
- 4 programmable option switches for signal cut-off
- Built-in surge arrester for power lines
- 10 programmable dry contacts interlocked by zone alarm signals

DESCRIPTION

The FAPN105N series fire alarm panel was developed to improve panel-front recognize-ability and functional operability from the viewpoint of users.

<Alarm inputs>

Conventional fire detectors and manual alarm boxes are connected to alarm receiving circuits to produce visual and audible alarms on the panel and to actuate alarm bells. The FAPN105N series fire alarm panel has a line-up of 10 and 20 alarm receiving circuits (zones). Each alarm receiving circuit has an alarm verification function.

<Auxiliary inputs>

Three system signals can be received by three auxiliary receiving circuits to be indicated by three auxiliary LED indicators on the panel. These signals should be non-alarm supervisory signals such as sprinkler water tank water level indication and low-air pressure switch activation on dry-pipe sprinkler system.

<Signal outputs>

10 programmable contacts are available for signal output. A group of signals for a hydrant pump starting relay box and a group of signals for an annunciator panel are also available.

<Digital display>

The 3-digit digital indicator displays not only alarm-activated zones but also trouble signals and system event history list.



<Alarm bell activation>

There are 2 alarm bell activation modes. One actuates all alarm bells at the same time, called All Local Alarm ON. The other actuates a group of alarm bells depending on the location of a fire, called localized alarm.

One pair of terminals is available for the general alarm. The programmable contacts are used for the localized alarm.

<Self-diagnosis>

The followings are monitored at all times:

- Open circuit of detector wiring
- Battery power failure
- Circuit voltage trouble
- Fuse blowout
- Transmission fault
- Open/short alarms of local bells silencing circuit interlocked with emergency PA system
- Connection fault (speaker)
- Memory trouble
- Database trouble
- CPU error

The fire alarm receiving circuits are tested once a week and the test results are recorded in the history list.

<Programming>

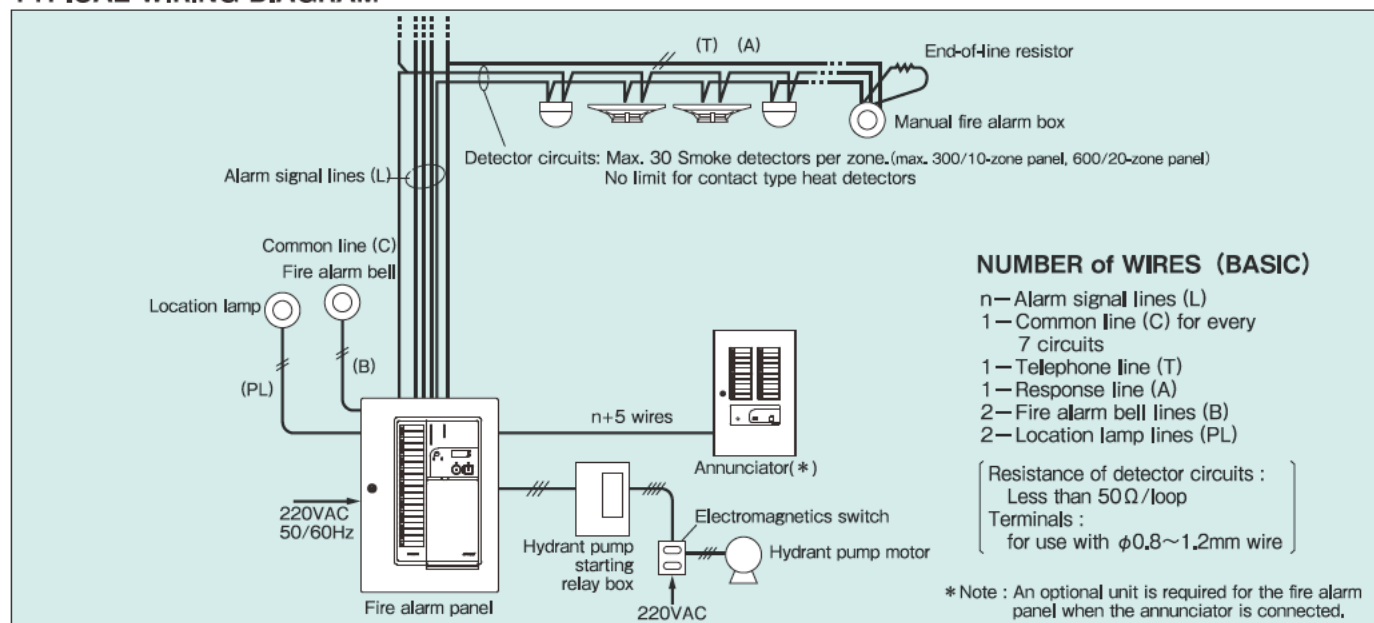
The following settings are programmable in database setting mode:

- Unused alarm receiving circuits do not need dummy current loads
- Alarm verification on alarm receiving circuits
- Three customizable LED indicators for auxiliary input signals
- Interlocking of 10 dry contacts for zone alarm signals
- Option switches on panel front

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TYPICAL WIRING DIAGRAM



SPECIFICATIONS

MODEL NO.	FAPN105N SERIES
TYPE	Conventional type
POWER SUPPLY	220VAC 50/60Hz
AUXILIARY POWER SUPPLY	Ni-Cd battery (24VDC, 0.45Ah)
CIRCUITS VOLTAGE	5, 24, 48VDC, 24VAC
ALARM VERIFICATION TIME	Thermal detector: 10sec.; Smoke detector: 60sec.
POWER CONSUMPTION	Monitoring: approx. 30VA Alarm: approx. 68VA
MAXIMUM NUMBER OF DEVICES SUPPORTED	Spot type smoke detectors: 30/zone (max. 300/10-zone, 600/20-zone) Alarm bells : 30 (24VDC, 10mA/bell) Location lamps: 7 (30V, 2W/lamp); 29 (24VDC, 15mA/lamp)
AMBIENT TEMPERATURE AND HUMIDITY	0 to 40°C, 20~85% (RH)
ALARM INPUT CIRCUIT LOOP RESISTANCE	Less than 50Ω/loop
END-OF-LINE RESISTOR	10kΩ, 1/2W
MATERIALS (ENCLOSURE)	ABS resin with 94UL-V2 flammability rating
COLOR	Off-White (Nohmi white): approximating Munsell no. N8.7 or equivalent
WEIGHT	Approx. 4kg
DIMENSIONS	480mm (H) × 340mm (W) × 90mm (D)

ORDERING INFORMATION

10-zone fire alarm panel

FAPN105N-R-10L

20-zone fire alarm panel

FAPN105N-R-20L

NOTE

- The information contained herein does not purport to cover all the details or variations of the equipment described, nor to provide for every possible contingency that may be met in connection with its installation, operation or maintenance.
- Specifications are subject to change without notice. Contact Nohmi before relying on the information.
- Actual performance is based on proper application of the product by a qualified professional.
- Should further information be required or should particular concerns arise that are not covered sufficiently for the purchaser's purposes, the matter should be referred to Nohmi or your nearest distributor.

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FIXED TEMPERATURE DETECTOR

FDLJ SERIES

FEATURES

- Physical protector equipped
- Physical durability improved
- Easy installation screw holes
- Easy installation lead-wire tip soldering finish
- Sticker color indication for water proof type and non-water proof type
- 2-wire system
- Alarm response lamp (LED)
- Water proof type available
- Approved by Japan Fire Equipment Inspection Institute

DESCRIPTION

The FDLJ series fixed temperature heat detectors use bi-metal snap discs as heat sensing elements, which close the alarm contacts when ambient temperature has reached a pre-determined level of temperature. The detectors are automatically self-restoring after operation, when the ambient temperature falls below the operation temperature.

The FDLJ series heat detectors are equipped with the physical protectors which improved the detectors' durability much more than ever series detectors.

The screw holes of the detectors employ U-figure structure that makes the installation easy. In addition, all the tips of the lead wires are finished with soldering, that also makes the installation easy.

This series also includes water proof types, which are suitable for use in highly humid environments such as kitchen, bath room, and drying room.



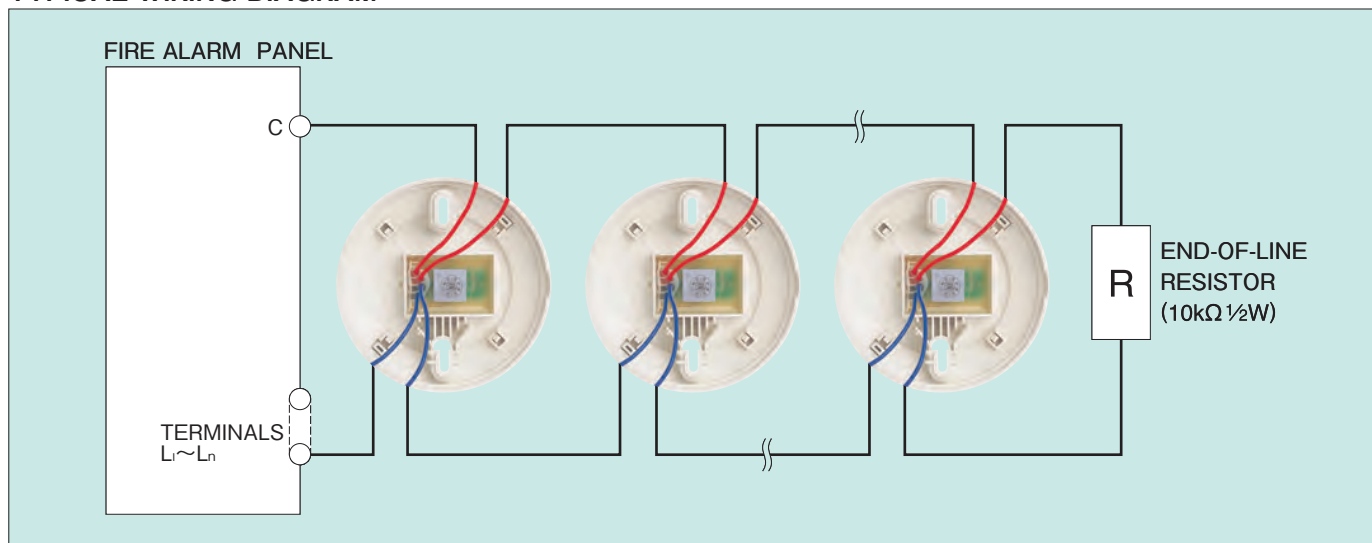
SPECIFICATIONS

Model No.	FDLJ906-D-65	FDLJ906-DW-65	FDLJ106-DW-X75	FDLJ106-DW-S75
TYPE	Standard	Water-proof		
ADDITIONAL CIRCUIT	None		with a remote indicator lamp circuit	with a dry contact circuit
SENSITIVITY	Special		Class 1	
RATED OPERATING TEMPERATURE	65°C		75°C	
SENSOR CONTACT RATING	30VDC, 75mA			30VDC, 62mA
DRY CONTACT RATING	None			50VDC, 0.1A
RESPONSE LAMP	Red LED			
AMBIENT TEMPERATURE	-10 to 45°C		-10 to 55°C	
MATERIALS	Heat receiving plate : Aluminum Main body : Polycarbonate resin			
WEIGHT	Approx.71g	Approx.82g	Approx.85g	

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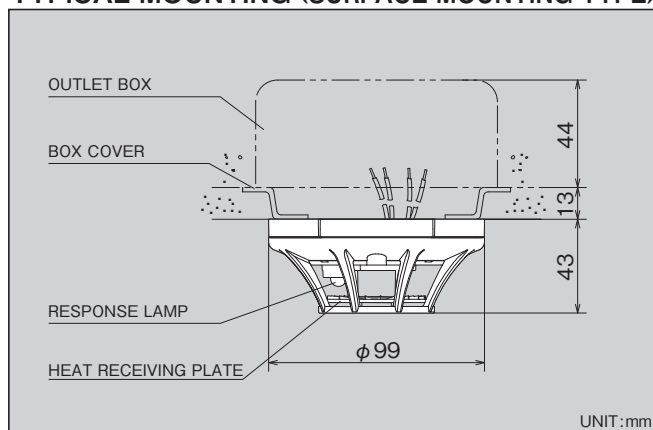
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TYPICAL WIRING DIAGRAM

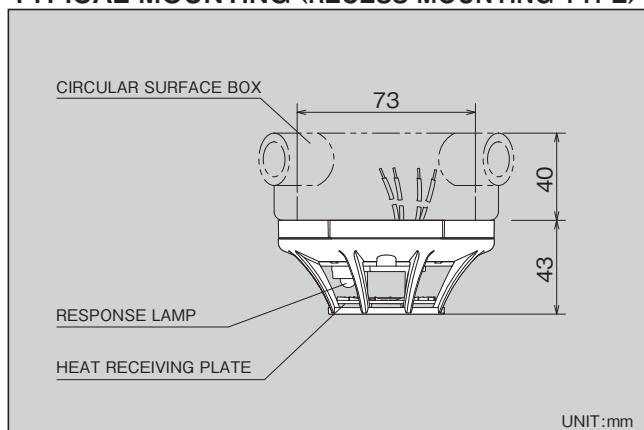


• Lead wire system • Maximum number of detectors to be connected : No limit. • External wire resistance : Less than 50 Ω /line

TYPICAL MOUNTING (SURFACE MOUNTING TYPE)



TYPICAL MOUNTING (RECESS MOUNTING TYPE)



COVERAGE AREA PER DETECTOR

Height between floor and mounting surface		Class Special	Class 1
Less than 4m	Fire-Resistant Building	70m ²	60m ²
	Other Building	40m ²	30m ²
4m~8m	Fire-Resistant Building	35m ²	30m ²
	Other Building	25m ²	15m ²

ORDERING INFORMATION

Model no.	SENSITIVITY	OPERATING TEMPERATURE	RESPONSE LAMP	WATER-PROOF	ADDITIONAL CIRCUITS	WEIGHT
FDLJ906-D-65	Special	65°C	○	—	None	71g
FDLJ106-D-75	Class 1	75°C	○	—		71g
FDLJ906-DW-65	Special	65°C	○	○		82g
FDLJ106-DW-75	Class 1	75°C	○	○		82g
FDLJ906-DW-N65	Special	65°C	—	○		80g
FDLJ106-DW-N75	Class 1	75°C	—	○	with a remote indicator lamp circuit	80g
FDLJ906-DW-X65	Special	65°C	○	○		85g
FDLJ106-DW-X75	Class 1	75°C	○	○	with a dry contact circuit	85g
FDLJ906-DW-S65	Special	65°C	○	○		85g
FDLJ106-DW-S75	Class 1	75°C	○	○		85g

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