

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.

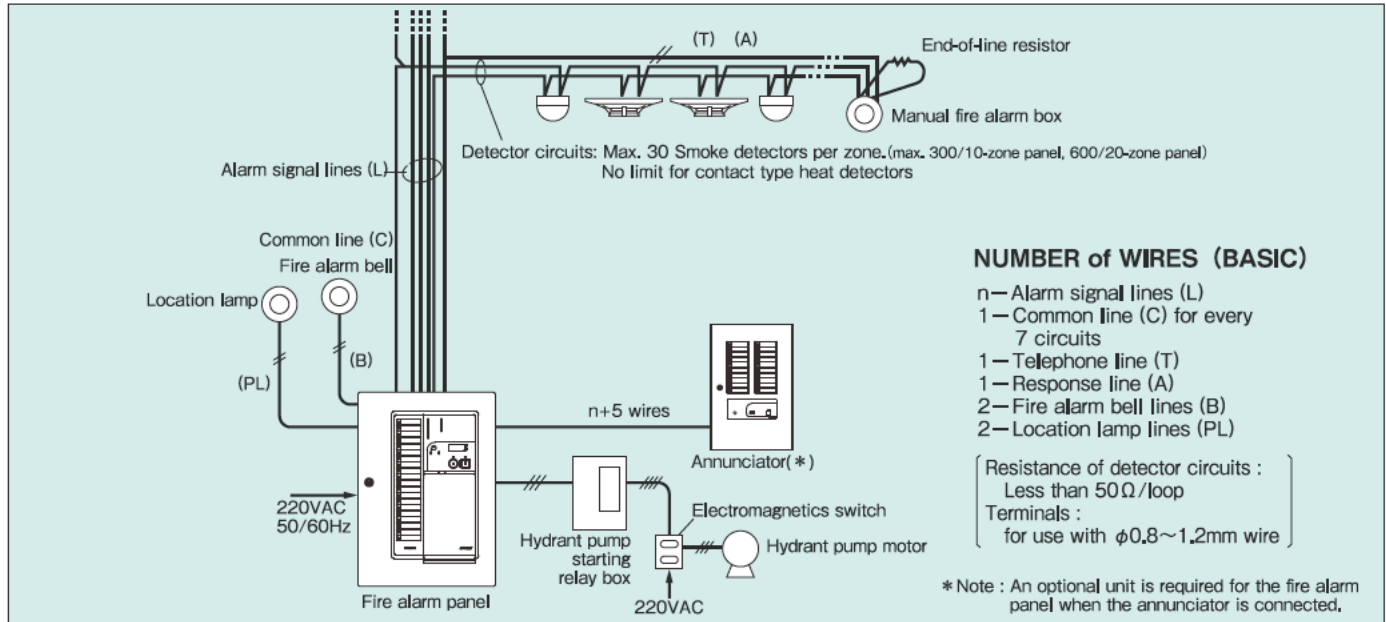
<Programming>

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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