NOHMI

FIRE ALARM PANEL
FAP 129N SERIES

New!

FEATURES
- Save-cost and save-space
- Available for 10 and 20 fire alarm zones
- Conventional type
- Alarm verification type
- Name plate and a digital display for alarmed zones
- Programmable output signal
- Ni-Cd stand-by battery built in
- Handset built in for maintenance
- Programmable function at site
- Automatic self-checking
- Various test facilities for maintenance
- Surge arrester built in for power lines

DESCRIPTION
The FAP129N series fire alarm panel was developed to provide a cost- and space-saving conventional fire alarm panel together with more user-oriented functions.

The size of the panel is approximately one-half the depth, one-half the area, one-fourth the volume, and one-fifth the weight of our last 20-zone fire alarm panel.

The cabinet is made of ABS resin with non-flammability to UL-94V2.

<Alarm inputs>
Conventional fire detectors and manual alarm boxes are connected to alarm input circuits to give visual and audible alarm at the panel and to actuate alarm bells. The FAP129N series fire alarm panel has a line-up of 10 and 20 alarm input circuits (zones).

Each alarm circuit has an alarm verification function.

<Auxiliary inputs>
Three auxiliary input signals can be connected to auxiliary input circuits to be displayed it on the panel. They may be used for non-alarm input signals.

<Signal outputs>
2 representative alarm signals are available.

10 voltage-free contacts are available for signal output.

A group of output signal for an Annunciator Panel.

A group of signals for a Fire Pump Starting Relay Box

<Digital display>
The 2-digit digital indicator displays not only alarming zones but also trouble which happened in the fire alarm panel and in the system.

<Alarm bell activation>
There are 2 modes to activate alarm bells. One is to actuate all alarm bells at the same time, called general alarm. The other is to actuate 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 10 voltage-free contacts are used for the localized alarm.

<Automatic self-checking>
The following are automatically monitored at all time.
- Detector circuits for continuity
- Connection of the battery and fuse blown-out
- Microcomputer chip and memory chips for abnormal running
- Main fuses for blown-out
- Connectors and signal transmission circuits for interruption of communication between PCB's.
- Main circuit voltage for over limit and under limit.

The alarm input circuits are automatically checked once a week for normal operation.

<Programming>
The following are programmable for setting and canceling with a template on the panel
- Non used-alarm input circuits without putting dummy loads
- Alarm verification function to alarm-input circuits
- Interlocking auxiliary input signals with an audible alarm at the panel
- Interlocking alarm input signals with representative alarm signals
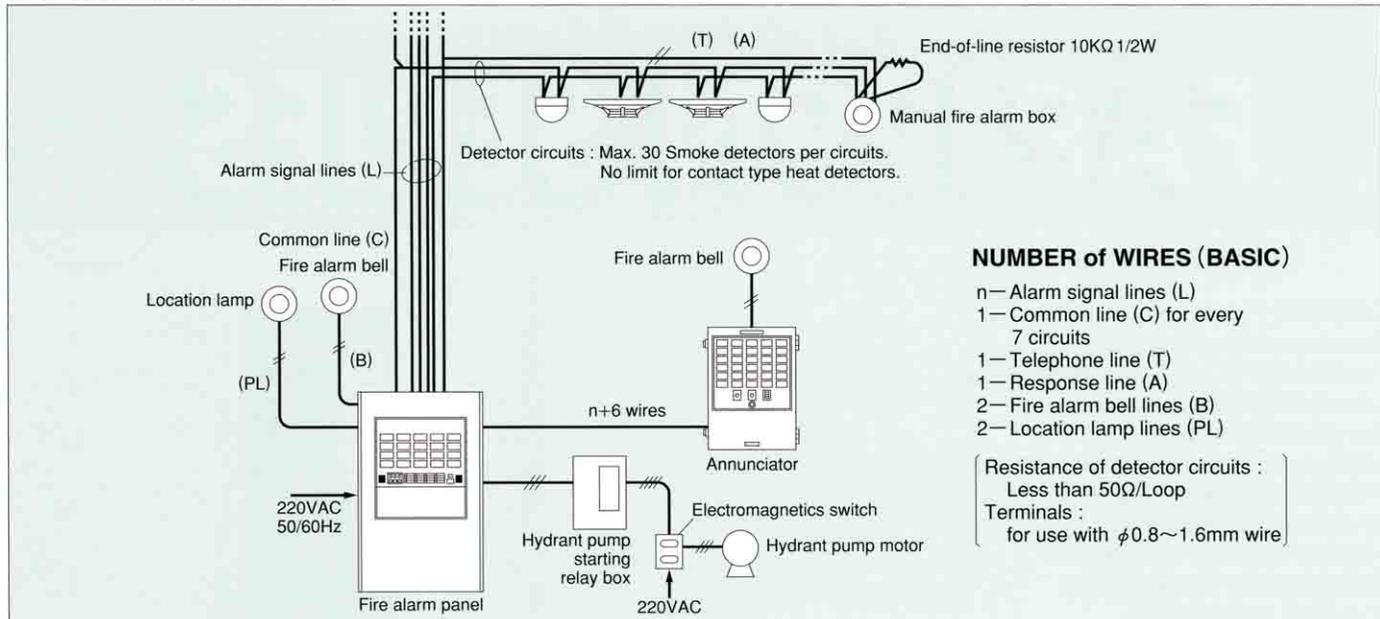- An audible alarm at the panel during main power off
- Interlocking alarm input signals with 10 voltage-free contact outputs

<Fire protection-related device control>
FAP129N series fire alarm panel has only fire alarm functions. FCS129N series fire alarm panel is available not only for fire alarm functions but also control functions for fire protection-related devices such as smoke vents, fire extinguishing system etc.

Contact our distributor in your region for the details of FCS129N series.

NOHMI BOSAI LTD.

TYPICAL WIRING DIAGRAM

End-of-line resistor 10KΩ 1/2W

(T) (A)

Manual fire alarm box

Detector circuits : Max. 30 Smoke detectors per circuits.
No limit for contact type heat detectors.

Alarm signal lines (L)

Common line (C)
Fire alarm bell

Fire alarm bell

Location lamp

(B)

(PL)

n+6 wires

Annunciator

220VAC
50/60Hz

Hydrant pump
starting
relay box

Electromagnetics switch

Hydrant pump motor

220VAC

Fire alarm panel

NUMBER of WIRES (BASIC)

n— Alarm signal lines (L)
1— Common line (C) for every
　　7 circuits
1— Telephone line (T)
1— Response line (A)
2— Fire alarm bell lines (B)
2— Location lamp lines (PL)

Resistance of detector circuits :
　Less than 50Ω/Loop
Terminals :
　for use with ϕ0.8～1.6mm wire

SPECIFICATIONS

Model no.	FAP129N SERIES
TYPE	Wall-mounting type
POWER SUPPLY	220VAC 50/60Hz
AUXILIARY POWER SUPPLY	Ni-cd battery (24VDC, 0.45Ah)
CIRCUITS VOLTAGE	5, 24, 48VDC, 24VAC
POWER CONSUMPTION	Approx. 30VA for monitoring Approx. 65VA for alarming
NOMINAL ALARM VERIFICATION TIME	60sec.
MAXIMUM NUMBER OF APPARATUS TO BE CONNECTED	Smoke detectors : 30/zone Alarm bells : 30 (24VDC, 10mA/bell) Location Lamps : 7 (30V, 2W/lamp) 21 (24VDC, 21mA/lamp)
AMBIENT TEMPERATURE	0 to 40℃
LOOP RESISTANCE OF ALARM INPUT CIRCUIT	Less than 50Ω/loop
END-OF-LINE RESISTOR	10kΩ, 1/2W
TERMINAL BLOCK	Insert type terminals suitable for solid conductors with a diameter of 0.8 to 1.6 mm Use pin type solderless contacts for stranded conductors.
MATERIALS (ENCLOSURE)	ABS resin with non-flammability to 94V2 (UL)
COLOR	Nohmi yellow : Nearly to Munsell no. 2.5Y 9/1, semi-glare
DIMENSIONS	480mm(H)×340mm(W)×70mm(D)
WEIGHT	Approx. 5kg

ORDERING INFORMATION

10-zone fire alarm panel	—— FAP129N-10L
20-zone fire alarm panel	—— FAP129N-20L
20-zone fire alarm panel with control function (10 zones only)	—— FCS129N-20L

- 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 distributer in your region.