N765
N3060

Integlex Multicrest ™
fire alarm system

Intelligent Addressable Fire Alarm System

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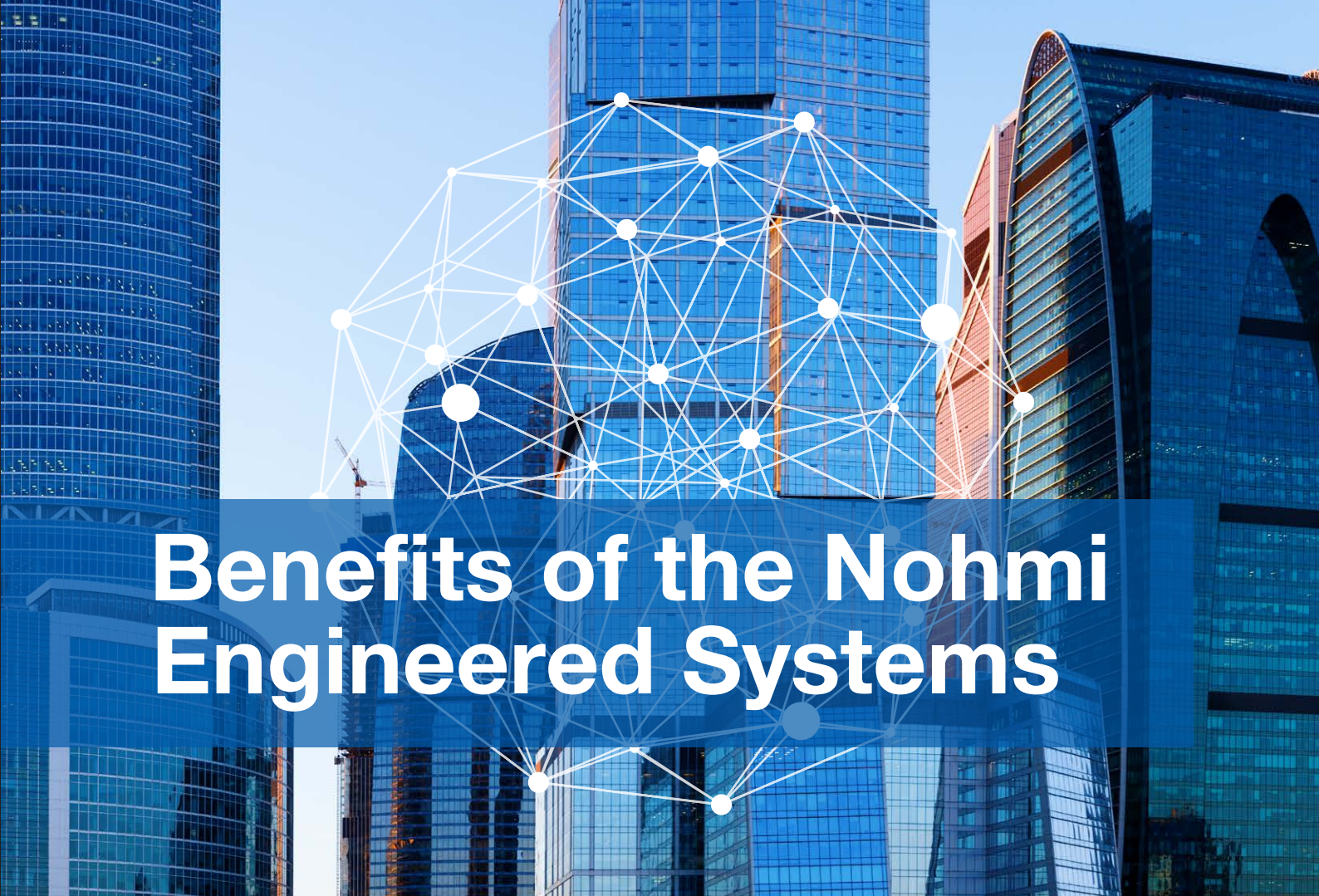
"Nohmi Quality"
you can trust.

From the viewpoint of social safety and industrial risk management, there is an increasing demand for improvements in the quality of fire prevention. Although it is obvious that safety is as important as air, people are only now re-evaluating safety and appreciating its importance.

It is already difficult to ensure safety even when a building is viewed from the simple container concept.

People now have diverse lifestyles so fire protection systems peculiar to the building must be constructed. As a result, we must understand both how buildings are used and the lifestyles of the occupants.

At the same time, unique, sophisticated fire protection technology is required to also take into account the construction and function of buildings as well as innovations in external cladding and internal finishing materials.

Take a look at our fire alarm systems. Nohmi's state-of-the-art technology features ingenious design combined with features that make our customers' lives safer and more comfortable.

Nohmi's worldwide corporate brand identity, NOHMI, is based on this concept of providing each customer with the most suitable fire protection system for their needs by making the most of our advanced know-how gained over many years.

Benefits of the Nohmi Engineered Systems

The Nohmi's Integlex Multicrest series will help you a flexible design and configuration on various building applications from small to large size projects. The Integlex Multicrest series control panels can be networked and the common devices such as detectors and modules can be shared. This helps you when expanding the buildings or changing layouts.

N3060   N765   N765

NohmiNET

N3060   SMP   N765

N765

Integlex Multicrest ™
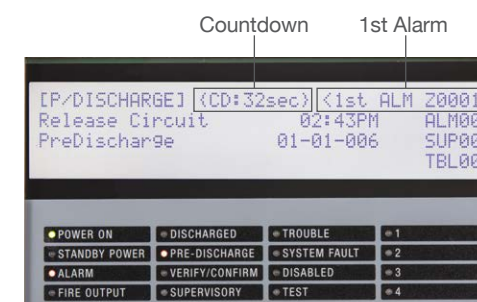fire alarm system
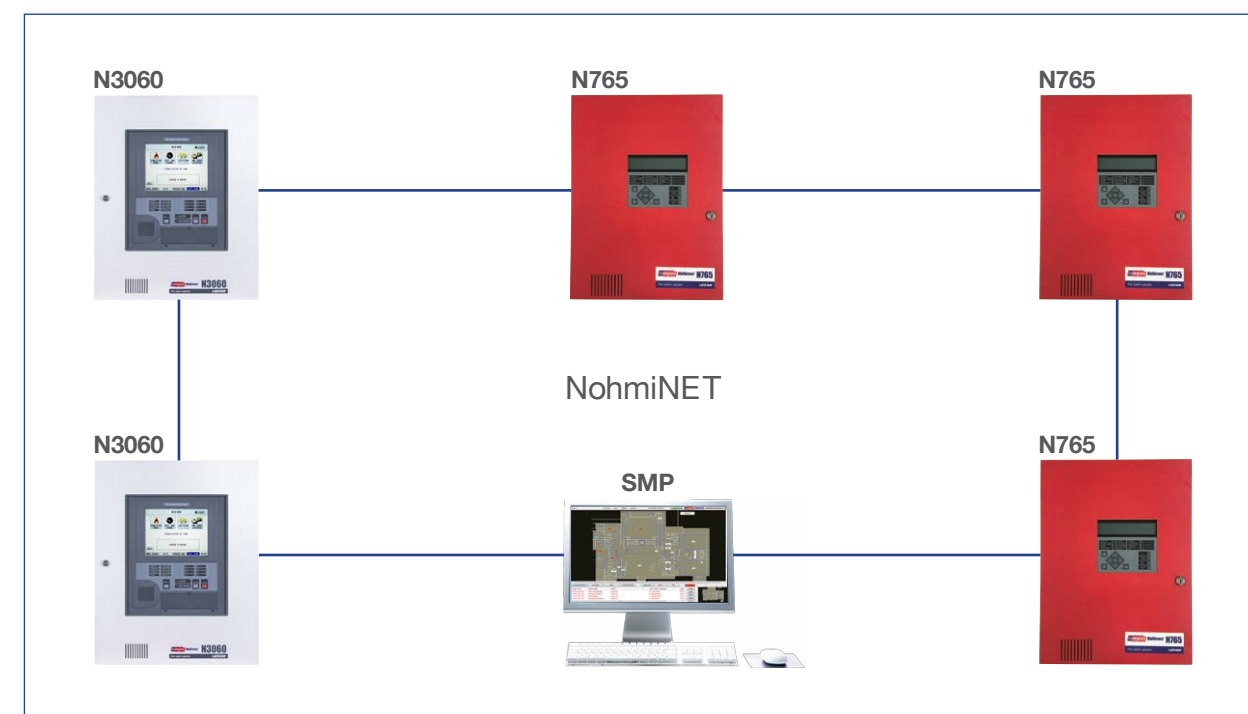
UL LISTED

The Integlex Multicrest N765 is an expandable and intelligent addressable fire alarm system.
The N765 Fire Alarm Control Panel is designed for small to medium size applications. The N765 FACP is suitable for the gas suppression control with a simple configuration tool and module.

The N765 is capable of having a maximum of 3 loops that support up to 765 addressable devices. Depending on the applications, each loop can be selected for either 127 addresses or 255 addresses.

The N765 is designed to fit small space. The N765 has a single size enclosure and all of the optional boards, such as an additional SLC board, network interface unit, and etc. can be stored in it.
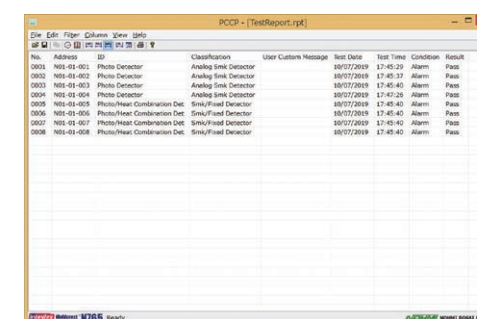
User-friendly Interface

The N765 is equipped with a simple interface and a clear LCD screen to make easy operation possible. The Option button will allow you to change display categories and short cut the function.

Optimal Display

Countdown   1st Alarm

The first alarm and a subsequent alarm will be displayed at the same time because knowing of the fire occurrence is very important for firefighting. The countdown timer will also be displayed if it is programmed so that the operator understands the remaining time to gas discharge.

Walk Test Report

After the walk test, the N765 can create the walk test report so that the users can easily prepare the report to the authorities.
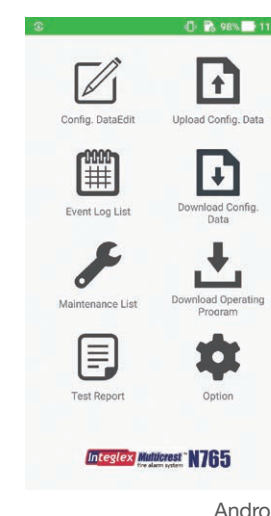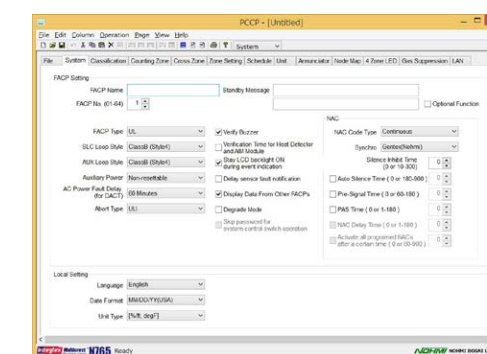
Configuration Tool for Smart Devices

The configuration tool is available for Android smart devices in addition to the PC-based Configuration Program

Android

Windows

Disable for Maintenance

The N765 FACP is capable of cutting off all output devices/circuits except NAC devices at once from the menu option. This prevents unwanted activation of output devices during the maintenance or installation work.

Integlex Multicrest™
fire alarm system

N3060

UL LISTED

The Integlex Multicrest N3060 is an expandable and intelligent addressable fire alarm system. The N3060 Fire Alarm Control Panel employs a TFT 10.4 inch large color touch screen interface which provides faster & easier system operation and displays a range of comprehensive system information.

The N3060 FACP is capable of having a maximum of 12 loops that supports up to 3,060 addressable devices. Depending on the application conditions, each loop can be selected for either 127 addresses or 255 addresses.

With its versatility and expandability, the N3060 system is suitable for a range of medium to large-sized applications.

**Integlex Multicrest N3060**
fire alarm systems

Easy to see various and comprehensive information on LCD

Details of categorized event information such as number of total events, classification, outbreak time, event type, event location, device message are displayed on the color LCD, so that the operator can immediately obtain comprehensive information.

1	1st ALARM information	
3	SUPERVISORY information	
5	PRE-DISCHARGE & DISCHARGE information	
7	DEVICE TROUBLE information	

	ALARM information After 1st alarm	2
	DEVICE information	4
	BYPASS information	6
	SYSTEM TROUBLE information	8

Simple mode display

Address map - Display of collective address statuses
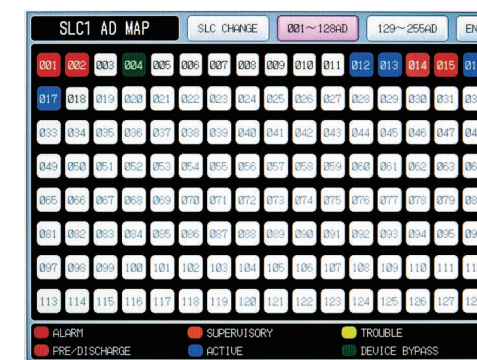
Address map display

The Address Map of N3060 allows the panel operator to see the statuses of 128 addresses at a glance. When the status of an address is changed, the color of the address icon changes to show the status.

Sensor monitor - Graphical detector sensing level
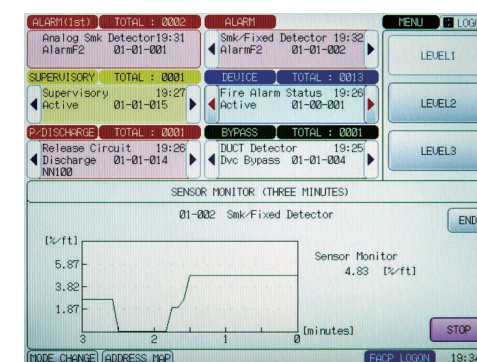
Sensor monitor display

The Sensor Monitor graphically displays the sensed smoke level or heat level of the selected analog detector for the past 3 minutes or the past one week. This function facilitates checking of the sensing level of a particular detector.

Action guidance messages
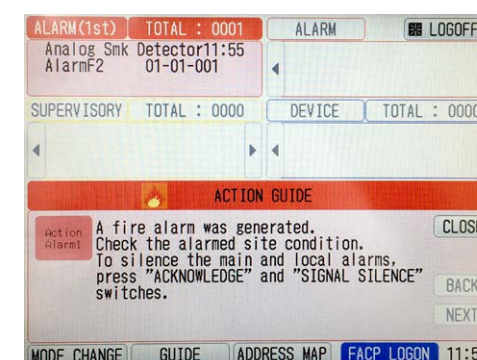
Sensor monitor display

The action guidance messages assist operators to take appropriate action when the event occur. The guidance messages are preprogramed, but users can change them accordingly. This feature can prevent panic, especially in the event of a fire.

Integlex Multicrest™ fire alarm system

N3060 N765

Network capability

The Multicrest FACPs have the ability to create a Local Area Network of FACPs and PC-based System Monitoring Program. A maximum of 64 nodes can be networked to handle various types of applications.

Graphic Interface Application

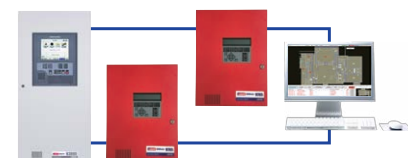The Windows-based graphic interface application offers the ability of monitoring system conditions of networked fire alarm systems. The system functional button, such as Acknowledge, Signal Silence, Fire Drill, and System Reset, is also available to control networked FAPCs and SMPs.

## No limitation of addressable device configuration per SLC

The addressable detectors and modules on an SLC can be configured in any combination as long as the total number is within the limit (127 or 255). This feature allows users to adjust the configuration of the fire alarm system to match future system changes and expansions.

Smoke detector dirty level check

Smoke detectors may become dirty after years of installation, making them more prone to trigger false alarms. The Multicrest FACPs can store data on the dirt level of connected addressable smoke detectors, which can also be indicated on a Maintenance List. By checking the dirt levels on the Maintenance List, users can see which addressable smoke detectors require maintenance or replacement.

Easy configuration for suppression control
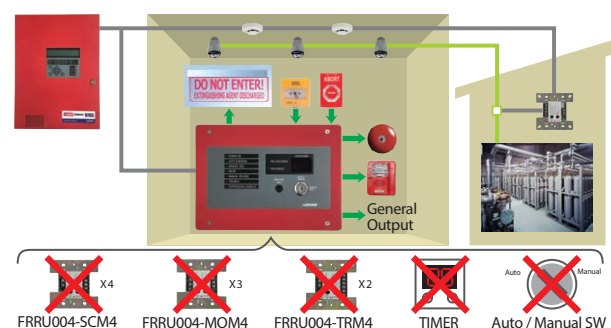
The Multicrest FACPs also have the ability to control fire suppression systems. The Gas Suppression Control Unit (GSCU) helps easy configuration and cost reduction. Multiple modules used to be required to configure necessary devices to the gas suppression system, but one GSCU can eliminate those.

FRRU004-SCM4   FRRU004-MOM4   FRRU004-TRM4   TIMER   Auto / Manual SW

* The GSCU will be compatible with the N3060 in the near future.

Features comparison of N3060 and N765

Features	N3060	N765
Loop (SLC) number per system	Max. 12 loops	Max. 3 loops
Addressable device number per loop	127 or 255	127 or 255
Addressable device number per system	Max. 3,060	Max. 765
Free addressable device configuration per loop	Yes	Yes
LCD Display	10.4 inch color touch screen	160 characters (40 letters x 4 lines)
Anti-tamper protection	3 level passwords	3 level passwords
FACP network	Yes, 64 nodes	Yes, 64 nodes
AC input rated voltage and frequency	110 to 240, 50/60Hz	100 to 240, 50/60Hz
Battery capacity	12Ah to 65Ah	7Ah to 40Ah
NAC number, total current	4 NACs, 6.0A in total	2 NACs, 5.0A in total
Built-in NAC synchronization	Yes	Yes
NAC codes	Temporal 3, March Time, California, Continuous, 20 ppm to continuous, 1 sec on and 2 sec off (20 ppm)	Temporal 3, March Time, California, Continuous, 20 ppm to continuous, 1 sec on and 2 sec off (20 ppm)
Auxiliary power	1.0A at 24VDC	1.0A at 24VDC
Extra power supply unit	Yes, 1 no.	No
Dry output contact	3 nos.	3 nos.
Trouble output contact	1 no.	1 no.
Input Circuit	No	2 nos.
Remote annunciator number per system	Max. 30	Max. 30
RS-232C serial output	1 no.	1 no.
Event history buffer	2,500 events	4,000 events
Sensor monitor	Yes	Yes
Bypass	Yes	Yes
Alarm simulation	Yes	Yes
Auto program	Yes	Yes
Fire suppression system control	Yes	Yes
Pre-signal	Yes	Yes
Positive alarm sequence	Yes	Yes
Auto silence	Yes	Yes
Silence inhibit	Yes	Yes
Walk Test (standard and silent)	Yes	Yes
Walk Test Report	No	Yes
Config. data edit on LCD	Yes, partially	Yes, Partially
Address map	Yes	No
Machine time (Component running time)	Yes	Yes
Configuration data creation	Windows-based application	Windows-based application & Android application
Degrade mode	Yes	Yes
Voice message	Yes	No
Smoke detector dirty level check	Yes	Yes
Action guidance	Yes	No
SD Card	No	Yes
Trouble Zone	No	Yes
Countdown Timer	No	Yes

Common Devices

Analog Addressable Detectors

Analog Photo Smoke
Detector
FDKU026-D-X
FDKU012-PSA

Analog Photo Smoke /
Fixed Heat Detector
FDKLU026-D-X
FDKLU001-PSHA

Analog Fixed Heat
Detector
FDLU019-D-X
FDLU009-FHA

Analog Combi Heat
Detector (ROR/Fixed)
FDHU003-D-X
FDHU002-RHA

Bases

4-inch Base
FZBU004-AB4
FZBU013-2Z
FZBU013-4Z

Addressable Sounder Base
FZBU005-ASB

Isolator Base
FZBU005-AIB

Modules

Miniature Contact Module
FRRU004-MCM

Single Contact Module
FRRU004-SCM4

Dual Contact Module
FRRU004-DCM4

Twin Relay Module
FRRU004-TRM4

Monitored Output Module
FRRU004-MOM4

Conventional Initiating
Zone Module
FRRU004-CIZM4

Short Circuit Isolator
FQIU004-SCI

Analog Input Module
FRRU004-AIM

Gas Suppression
Control Unit
FRRU004-GSCU

Address Setting Unit

Address Setting Unit
FZAW004-P

Annunciators

LCD Type
Remote Annunciator
FIRU009-R-LCD

LED Type
Remote Annunciator
FIRU009-R-LED

LED Driver Module
PCA-N3060-LDM

Pull Stations

Single Action
Terminal Type

Dual Action
Terminal Type

Notification Appliances

Alarm Bell

Strobe with Horn

Graphic Interface Application

System Monitoring Program
CNI016N

System Interface Unit

Network Accessories

Network Interface Unit
PCA-2706XA NIU

Fiber-optic Interface
Module
PCA-2707XA FIM

Fiber-optic Interface
Module 2-A
PCA-N3060-FIM2-A

Fiber-optic Interface
Module 2-B
PCA-N3060-FIM2-B

Integlex Multicrest™

Distributed by :

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Integlex Multicrest™ fire alarm system

Integlex Multicrest N765
Analog Addressable Fire Alarm Control Panel

Features

- UL864 10th Edition listed
- 100 to 240VAC, 50/60Hz input power
- 127 or 255 addressable devices per SLC, optionally expandable to 765 addressable devices with three SLCs
- Network capability up to 64 nodes
- SLC Class B, Class A, and Class X
- 2 NACs, Rated at 3.0 A each, Class B and Class A
- 1 auxiliary power, Rated at 1.0 A, Class B and Class A
- Total 5.0 A power supply
- 2 programmable input circuits
- 3 programmable relay outputs and 1 dedicated Trouble output
- 160 characters LCD (40 letters x 4 lines)
- 4 programmable zone indicators
- NAC synchronization (Gentex, Wheelock, Amseco)
- 4,000 event logs
- 3,000 conventional zones, 3,000 inter panel zones
- Available for gas suppression control

SIGNALING
UL LISTED

Description

The Integlex Multicrest N765 is a scalable analog/addressable fire alarm control panel with a total of 64 nodes in a network. The N765 can be programmed of any combination of smoke detector, heat detector, and modules, a total of 127 (50 ohms impedance) or 255 devices (25 ohms impedance) on a Signal Line Circuit. The N765 may be expanded up to 3 Signal Line Circuits, a total of 765 devices with a sub control unit PCA-N3060-SCU.

The operator interface consists of a 160-character LCD, system status LEDs, a local status buzzer, system control switches, and 4 programmable zone indicators. The LCD and the status LEDs inform the latest system information to the operator. The N765 is secured with a software password to prevent tampering the control panel by unauthorized persons.

The N765 has a 5.0 A power supply with two Notification Appliance Circuits (NACs) and one auxiliary power circuit. The NACs are rated at 3.0 A each and the auxiliary power circuit is rated at 1.0 A. The NACs are programmable and may be configured for NAC codes, strobe synchronization, constant power, or releasing. The strobe synchronization protocol includes Gentex, Wheelock, and Amseco.

The N765 is also listed for releasing of gas suppression systems. The software allows cross zones and counting zones with a total of 64 zones each. The N765 allows to connect a unique gas suppression control unit (FRRU004-GSCU) that is equipped with Auto/Manual changeover switch, countdown timer, two NACs, manual release circuit, abort input circuit, and discharge indicator circuit to make the configuration of gas suppression easy.

Ordering Information

Main Control Unit: PCA-N765-MCU
Enclosure (White) with Power Supply: ECP-N765-S-NW
Enclosure (Red) with Power Supply: ECP-N765-S-R
Sub Control Unit: PCA-N3060-SCU (option)

Network Interface Unit: PCA-2706XA NIU (option)
Fiber-optic Interface Module: PCA-2707XA FIM (option) or
                              PCA-N3060-FIM2 (option)
LAN Interface Unit: PCA-N765-LAN (option)

Specifications

PCA-N765-MCU

No.	Item	Specification
1	AC input rated voltage	100 to 240 VAC
2	AC input voltage frequency	50/60 Hz
3	AC input power	Max. 2.1 A at 100 VAC, Max. 0.9 A at 240 VAC
4	Maximum 24 VDC standby current	150mA (not including output load)
5	Maximum 24 VDC alarm current	270mA (not including output load)
6	Ambient operating temperature	0 to 49 °C (32 to 120 °F)
7	Rating for NAC1 and NAC2	3.0 A per circuit
8	Rating for Auxiliary power (AUX)	1.0 A
9	Rating for total of NAC1, NAC2, and AUX	5.0 A for three circuits (*)
10	Wiring style for NAC1, NAC2 and AUX	NFPA Class B and Class A
11	Rating for contact output	2.0 A
12	Wiring style for input circuit	NFPA Class B
13	SLC wiring style	NFPA Class B, Class A, and Class X
14	Maximum number of addresses per loop	127 / 255 addresses
15	Maximum SLC loop resistance	50 Ω (for 127 addresses), 25 Ω (for 255 addresses)
16	Maximum SLC loop capacitance	0.5 µF (for 127 addresses), 0.4 µF (for 255 addresses)
17	Maximum battery charging current	1.2 A
18	Standby battery capacity range	7 to 40 AH
19	Remote annunciator wiring style	NFPA Class B
20	Maximum remote annunciator	30 units
21	Maximum wiring length for remote annunciator	1.2 km (with 40 Ω and 0.4 µF)
22	Communication for remote annunciator	RS-485
23	Serial connection	RS-232C
24	Dimensions	217 mm (8.54")(H) x 280 mm (11.02")(W) x 36 mm (1.42")(D)

*) When using the NAC synchronization in NAC1 and/or NAC2 circuits, the total output of the synchronization circuits is limited to 3.0 A.

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Specifications

ECP-N765-S-NW (White) / ECP-N765-R (Red)

No.	Item	Specification
1	Ambient operating temperature	0 to 49 °C (32 to 120 °F)
2	Dimensions	506 mm (19.92")(H) x 377 mm (14.84")(W) x 102 mm (4.02")(D)

Installation

Install in accordance with the installation manual.

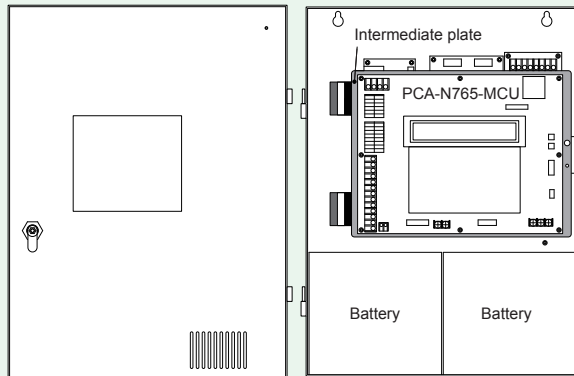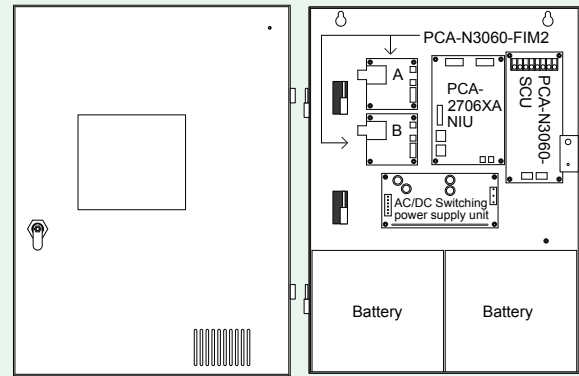Figure 1: Status with the intermediate plate closed

Intermediate plate

PCA-N765-MCU

Battery   Battery

Figure 2: Status with the intermediate plate opened

PCA-N3060-FIM2

A

PCA-2706XA NIU

PCA-N3060-SCU

B

AC/DC Switching power supply unit

Battery   Battery

Dimensions

Width = 377 mm

Height = 506 mm

Depth = 102 mm

Width = 368 mm

Height = 500 mm
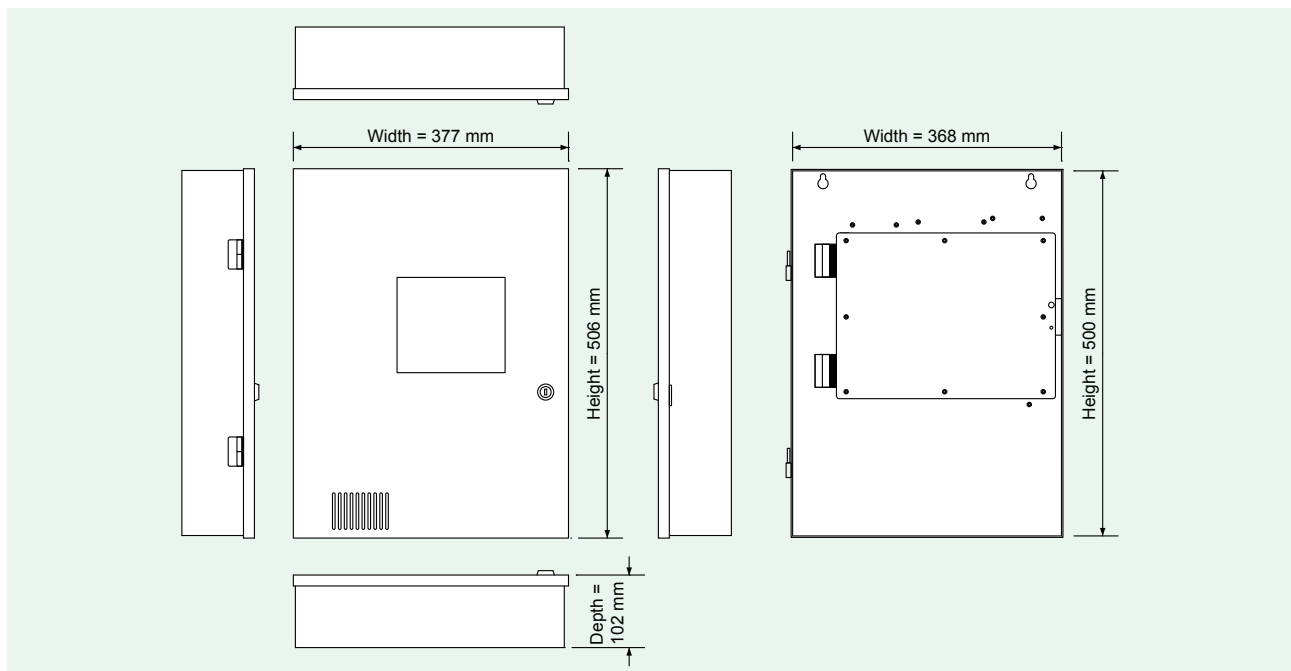
Notice

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- 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 purpose, the matter should be referred to Nohmi or a distributor in your region.

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- **F A X: (81)3-3265-5348**
- URL https://www.nohmi.co.jp/english/

Contact

Integlex Multicrest™ fire alarm system N3060

PCA-N3060-SCU
Sub Control Unit

Features

- UL 864, 9th edition listed
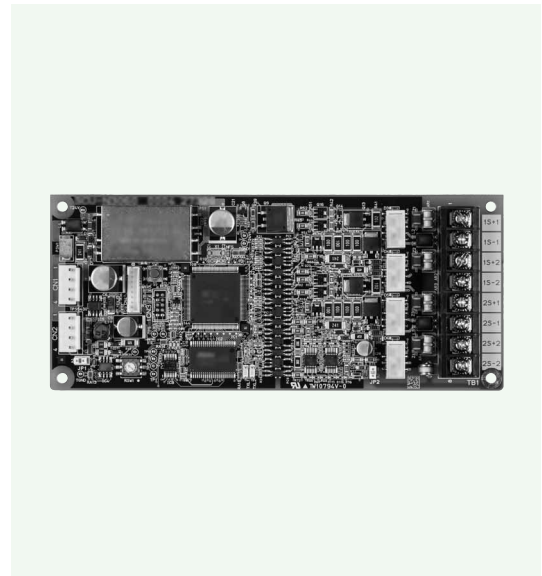- Max. 127 or 255 addressable devices per SLC
- Two SLCs per PCA-N3060-SCU
- NFPA Class A (Style 6 & 7) and Class B (Style 4)
- Monitoring status LED
- Easy installation

SIGNALING UL LISTED

Description

The PCA-N3060-SCU is a microprocessor-based circuit assembly that is equipped with two Signal Line Circuits. Each SLC supports maximum 127 or 255 addressable devices. The maximum number of devices per loop is selectable by the PC-based Configuration Program. The max. 127 devices with 50 ohms loop resistance and 0.5μF loop capacitance are suitable for those cases requiring long wiring. The max. 255 devices with 25 ohms loop resistance and 0.4μF loop capacitance are suitable for those cases where more devices are required rather than long wiring.

The PCA-N3060-SCU communicates with addressable devices on its SLCs and is applicable to NFPA Class A (Styles 6, 7) or Class B (Style 4). A green LED per SLC on PCA-N3060-SCU flashes while the status monitoring function is working correctly. When the PCA-N3060-SCU detects an abnormal condition, it sends such condition (Alarm, Supervisory, or Trouble) to the main control unit (PCA-N3060-MCU) through the power supply unit (PCA-N3060-PSU) to alert the system operator of the condition.

The Integlex Multicrest N3060 control panel supports up to 12 SLCs maximum.

Ordering Information

Part No. PCA-N3060-SCU

Specifications

No.	Item	Specification
1	Maximum 24 VDC standby current	70 mA
2	Maximum 24 VDC alarm current	70 mA
3	Operating temperature range	0 to 49 °C (32 to 120 °F)
4	SLC wiring style	NFPA Class A (Style 6 &7), Class B (Style 4)
5	Maximum No. of addresses per loop	127 / 255 addresses
6	Maximum SLC loop resistance	50 Ω (for 127 addresses) 25 Ω (for 255 addresses)
7	Maximum SLC loop capacitance	0.5 μF (for 127 addresses) 0.4 μF (for 255 addresses)
8	Communication for PCA-N3060-MCU	RS-485
9	Dimensions	78 mm (H) x 180 mm (W) x 15 mm (D)

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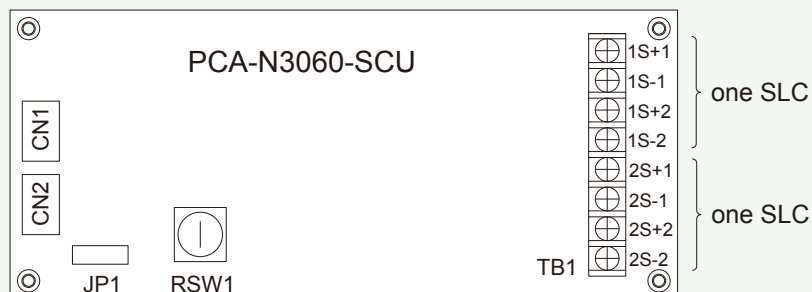
Installation in FACP Large Size

PCA-N3060-SCU

PCA-N3060-SCU

CN1
CN2
JP1   RSW1

1S+1
1S-1   } one SLC
1S+2
1S-2

2S+1
2S-1   } one SLC
2S+2
TB1   2S-2

PCA-N3060-SCU (No.1)
PCA-N3060-SCU (No.2)
PCA-N3060-SCU (No.3)
PCA-N3060-SCU (No.4)
PCA-N3060-SCU (No.5)
PCA-N3060-SCU (No.6)

PCA-N3060-PSU (No.1)
PCA-N3060-PSU (No.2)

AC/DC Switching power supply unit
AC/DC Switching power supply unit

PCA-2706XA NIU

B   A

PCA-N3060-FIM2

Battery   Battery
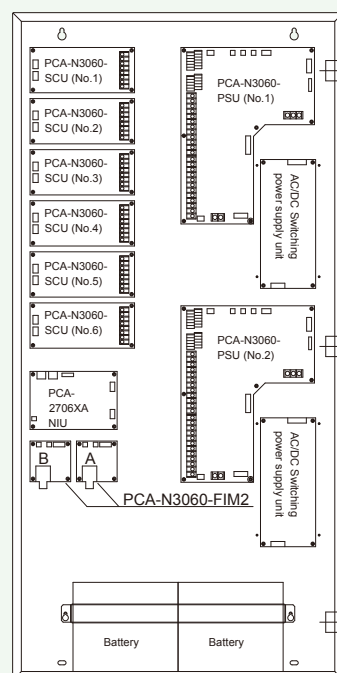
Wiring in NFPA Class A (Style 7)

Wiring in NFPA Class B (Style 4)
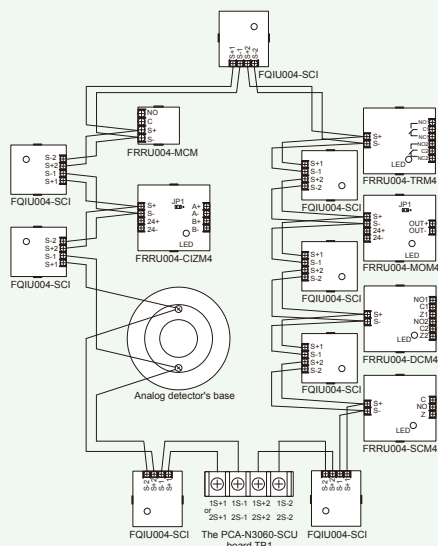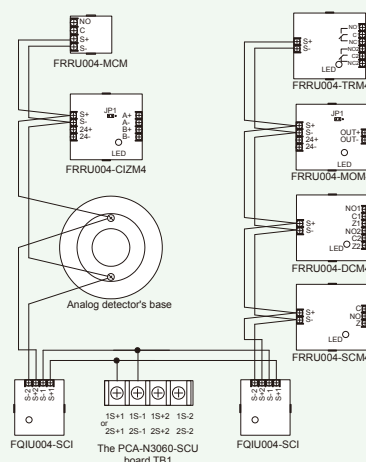

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Integlex Multicrest™ N3060
fire alarm system

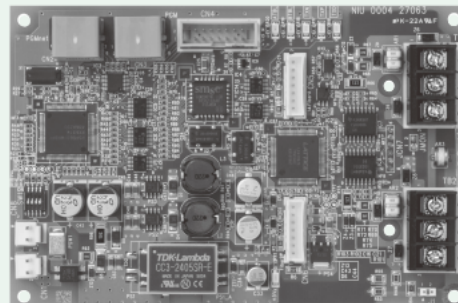# PCA-2706XA NIU
Network Interface Unit (NIU)

Features

- UL 864, 9th edition listed
- Max. 64 nodes available on network
- NFPA Styles 4 and 7 wiring applicable
- 6 status LEDs
- Down-sized PC assembly
- Easy installation

SIGNALING
UL LISTED

Description

The PCA-2706XA NIU assembly is the optional component in the FACP system. The PCA-2706XA NIU is comprised of a central microprocessor, Arcnet controller and memory that allows it to communicate with other FACPs. The PCA-2706XA NIU communicates with the Main Control Unit (PCA-N3060-MCU) via RS-232C so that the PCA-2706XA NIU provides PCA-N3060-MCU with PCA-2706XA NIU status (i.e. open circuit in wiring for Port A and Port B) and information received from other FACPs on the network. When the PC-based Configuration Program (PCCP) is connected to the PCA-2706XA NIU, the information from PCCP is transmitted to PCA-N3060-MCU.

The PCA-2706XA NIU provides the system with the ability to construct the RS-485 network by which communication with other FACPs on the network is capable. The network is comprised of up to 64 nodes so that the system is able to have up to 195,840 addressable devices on the network. Using the optional Fiber-optic Interface Module (PCA-2707XA FIM or PCA-N3060-FIM2) together with PCA-2706XA NIU provides the system with the ability to use the fiber optic system for the network.

The PCA-2706XA NIU is equipped with six status LEDs. The [+5V] LED (green) indicates normal supply of 5 VDC to PCA-2706XA NIU when it is on. The [TXN] LED (green) indicates normal communication with PCA-N3060-MCU when flashing. The [TXP] LED (green) indicates normal communication with PCCP when flashing. The [TXD] LED (green) indicates normal communication with the network when it is on. The [ATBL] LED (yellow) indicates open circuit in wiring for Port A when it is on. The [BTBL] LED (yellow) indicates open circuit wiring for Port B when it is on.
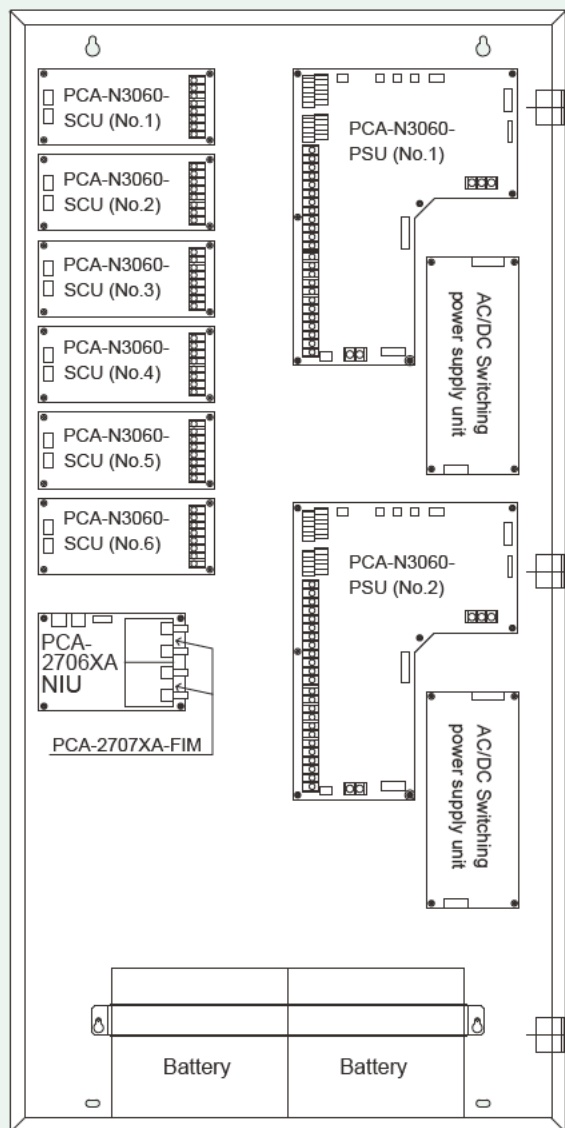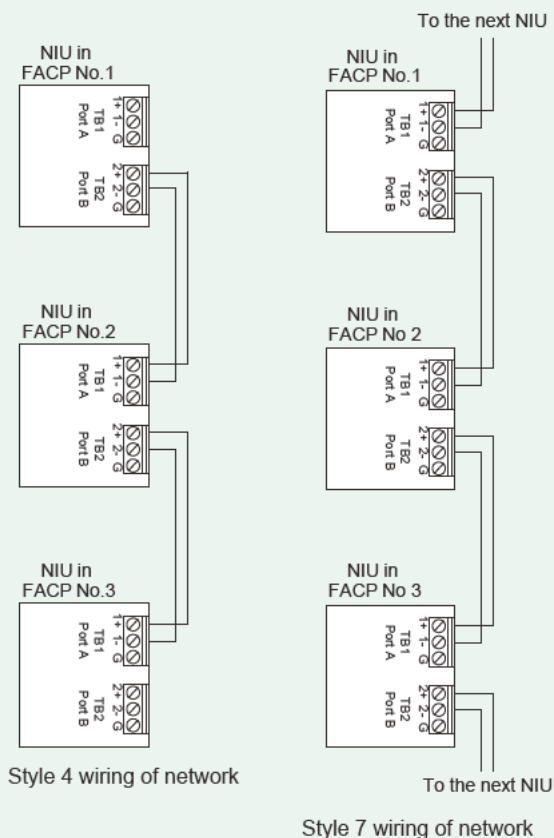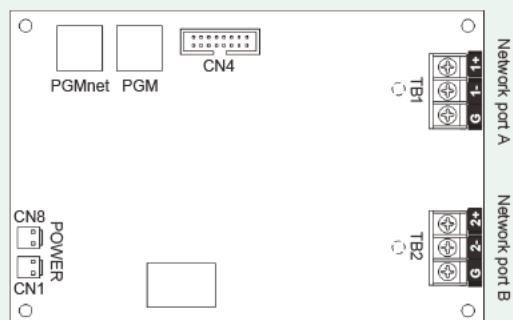
The 24 VDC power required for PCA-2706XA NIU operation is supplied from the Power Supply Module (PCA-N3060-PSU) to the PCA-2706XA NIU. The PCA-2706XA NIU changes over the 24 VDC to 5 VDC in its DC/DC converter and supplies it to its components (CPU, memory, etc.) for their operation. The 5 VDC power is also supplied to PCA-2707XA FIM or PCA-N3060-FIM2 for its operation when the PCA-2707XA FIM or PCA-N3060-FIM2 is used in system.

Ordering Information

Part No. PCA-2706XA NIU

Specifications

No	Item	Specification
1	Maximum 24 VDC standby current	54 mA
2	Maximum 24 VDC alarm current	54 mA
3	Ambient operating temperature range	0 to 49 ℃ (32 to 120 ℉)
4	Maximum ambient operating humidity	93 % non-condensing
5	Network connection	Daisy chain, RS-485
6	Network wiring style	NFPA Styles 4 and 7
7	Maximum no. of node	64
8	Maximum wiring DC resistance	72 Ω
9	Maximum wiring capacitance	80 nF
10	MCU/PCCP connection	RS-232C
11	Dimensions	150 mm (5.9") (H) x 100 mm (3.94") (W) x 25 mm (0.98") (D)

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NIU in FACP No.1 — Style 4 wiring of network

NIU in FACP No.1 (To the next NIU) — Style 7 wiring of network

PGMnet **PGM** CN4

Network port A — TB1 — 1- 1+

Network port B — TB2 — G 2- 2+

CN8 POWER CN1

NIU in FACP No.1
TB1 Port A — 1+ 1- G
TB2 Port B — 2+ 2- G

NIU in FACP No.2
TB1 Port A — 1+ 1- G
TB2 Port B — 2+ 2- G

NIU in FACP No.3
TB1 Port A — 1+ 1- G
TB2 Port B — 2+ 2- G

Style 4 wiring of network

To the next NIU

NIU in FACP No.1
TB1 Port A — 1+ 1- G
TB2 Port B — 2+ 2- G

NIU in FACP No 2
TB1 Port A — 1+ 1- G
TB2 Port B — 2+ 2- G

NIU in FACP No 3
TB1 Port A — 1+ 1- G
TB2 Port B — 2+ 2- G

To the next NIU

Style 7 wiring of network

PCA-N3060-SCU (No.1)
PCA-N3060-SCU (No.2)
PCA-N3060-SCU (No.3)
PCA-N3060-SCU (No.4)
PCA-N3060-SCU (No.5)
PCA-N3060-SCU (No.6)

PCA-N3060-PSU (No.1)
AC/DC Switching power supply unit

PCA-N3060-PSU (No.2)
AC/DC Switching power supply unit

PCA-2706XA NIU
PCA-2707XA-FIM

Battery   Battery

NOTE

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- 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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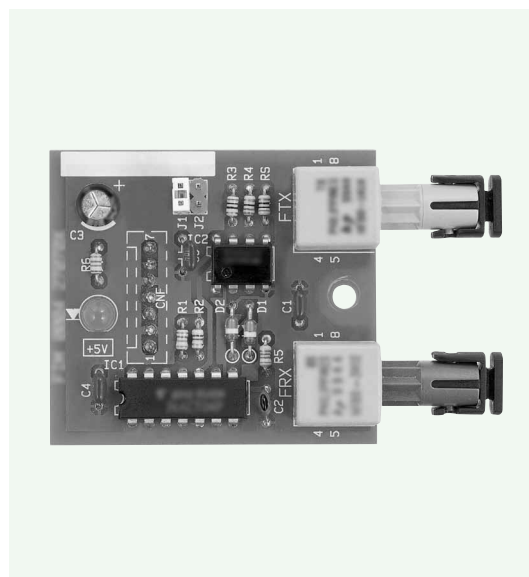- URL https://www.nohmi.co.jp/english/

Contact

PCA-2707XA FIM
Fiber-optic Interface Module (FIM)

Features

- UL 864, 9th edition listed
- Max. 64 nodes available on network
- NFPA Style 7 connection applicable
- Status LED
- Down-sized PC assembly
- Easy installation

SIGNALING
UL LISTED

Description

The PCA-2707XA FIM assembly is the optional component for the FACP system. The PCA-2707XA FIM provides the system ability to use the optic fiber system for the system network. The PCA-2707XA FIM is used in the system together-with the Network Interface Unit (NIU).

The PCA-2707XA FIM contains an element by which the data from/to other FACPs on the network are converted to optical data for transmission.

The 5 VDC power required for operation is supplied from NIU to the PCA-2707XA FIM.

The PCA-2707XA FIM is equipped with a status indicator (LED). The green LED indicates normal 5 VDC power supply from NIU when it is turned on.

The PCA-2707XA FIM is equipped with jumpers that shall be set according to the length of optic fiber used (i.e. less than one kilometer or more than one kilometer).
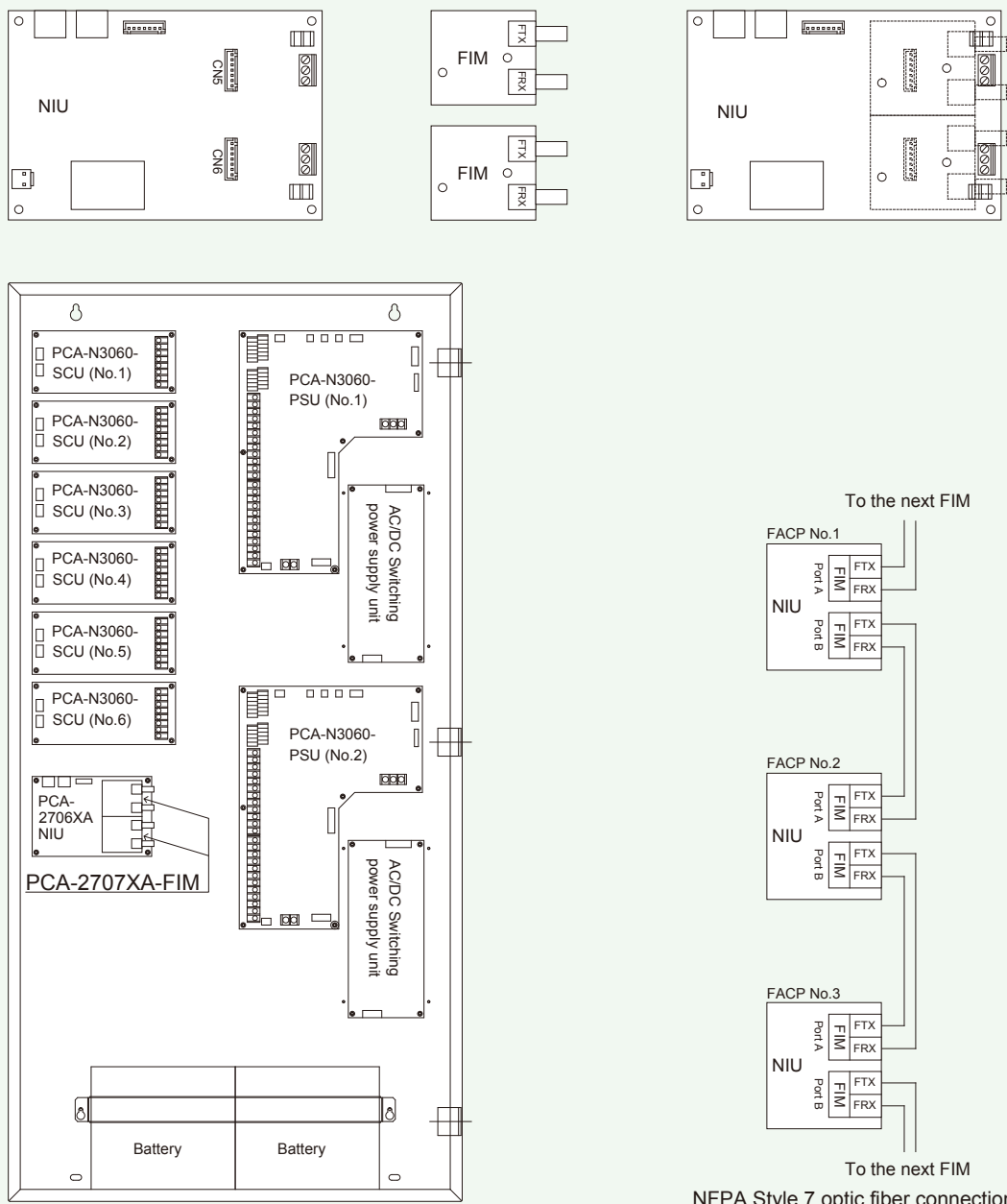
Ordering Information

Part No. PCA-2707XA FIM

Specifications

No.	Item	Specification
1	Maximum 5 VDC standby current	180 mA
2	Maximum 5 VDC alarm current	180 mA
3	Ambient operating temperature range	0 to 49℃ (32 to 120 ℉)
4	Maximum ambient operating humidity	93 % non-condensing
5	Network connection style	NFPA Style 7
6	Maximum number of nodes on network	64
7	Max. fiber length between an FIM and next FIM	2 km (50/125 µm), 1.7 km (62.5/125 µm)
8	Maximum attenuation	6 db
9	Dimensions	50 mm (1.97")(H) x 70 mm (2.76")(W) x 25 mm (0.98")(D)

Optic fiber specifications

No.	Item	Specification
1	Fiber type	GI
2	Material	Quarts glass
3	Core diameter	50 µm or 62.5 µm
4	Clad	125 µm
5	Bandwidth	850 nm

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NFPA Style 7 optic fiber connection

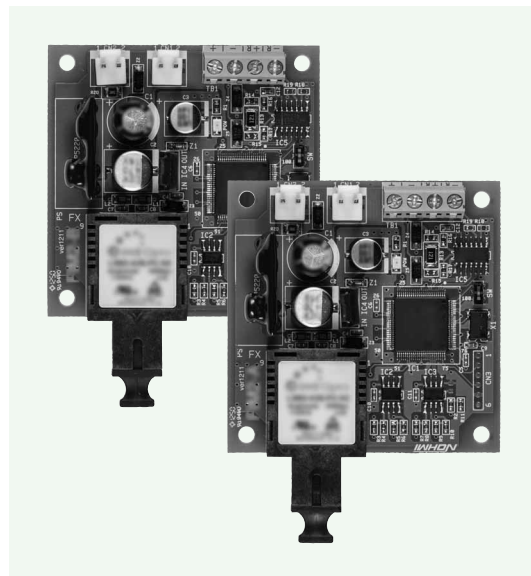Contact

Integlex Multicrest™ N3060
fire alarm system

PCA-N3060-FIM2
Fiber-optic Interface Module 2

Features

- UL 864, 9th edition listed
- Max. 64 nodes available on network
- NFPA Style 4 & 7 connection applicable
- Status LED
- Single-mode optic fiber
- Easy installation

SIGNALING
UL LISTED

Description

The PCA-N3060-FIM2 is the interface module for FACP networking to utilize fiber optic cable. The PCA-N3060-FIM2 is able to have the fiber optic cable length 5km maximum, though the PCA-2707XA FIM can have the length 2km maximum.

The PCA-N3060-FIM2 consists of two boards, PCA-N3060-FIM2-A and PCA-N3060-FIM2-B. These boards shall be used together. The PCA-N3060-FIM2 enables the system to use the Single-mode optic fiber system for the system network. The PCA-N3060-FIM2 is used in the system with the Network Interface Unit (PCA-2706XA NIU) and is mounted under the PCA-2706XA NIU inside the FACP cabinet.

The PCA-N3060-FIM2 contains an element by which the data from/to other FACPs on the network are converted to optical data for transmission.

The 24 VDC power required for operation is supplied from the Power Supply Unit (PCA-N3060-PSU) to the PCA-N3060-FIM2. The PCA-N3060-FIM2 is equipped with a status indicator (LED). The green LED indicates normal 24 VDC power supply from the PCA-N3060-PSU when it is turned on.
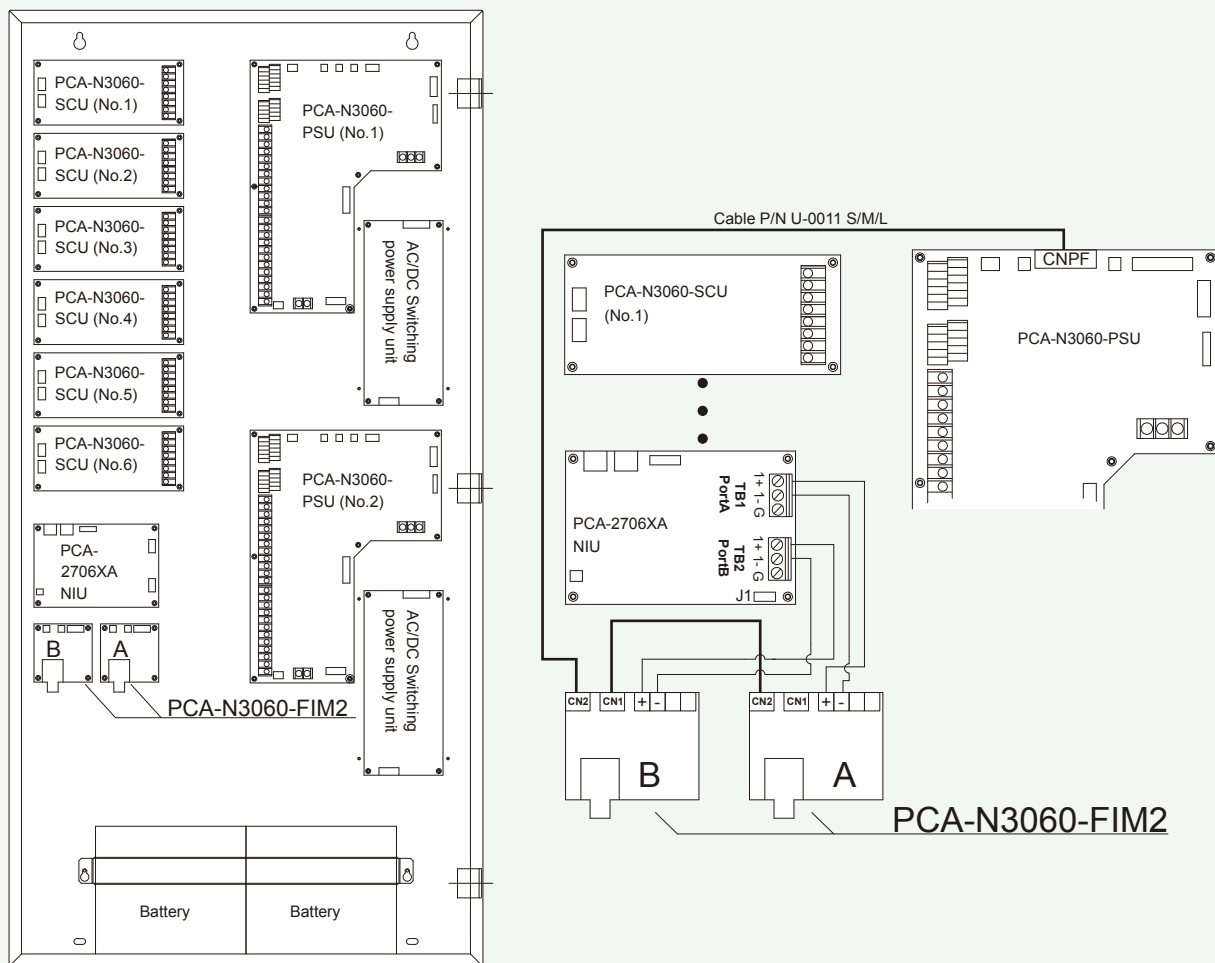
Ordering Information

Part No. PCA-N3060-FIM2-A, PCA-N3060-FIM2-B

Specifications

No.	Item	Specification
1	Maximum 24 VDC standby current	74 mA
2	Maximum 24 VDC alarm current	74 mA
3	Ambient operating temperature range	0 to 49 °C (32 to 120 °F)
4	Network connection style	NFPA Style 4 or 7
5	Maximum number of node on network	64
6	Max. fiber length between an FIM2 and next FIM2	5.0 km
7	Max. fiber length in total	50.0 km
8	Maximum attenuation ratio	5 dB
9	Dimensions	70 mm (H) x 70 mm (W) x 24 mm (D)

Optic fiber specifications

No.	Item	Specification
1	Fiber type	SM
2	Material	Quartz glass
3	Core diameter	9 µm
4	Clad	125 µm
5	Bandwidth	1310/1550 nm

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Cable P/N U-0011 S/M/L

PCA-N3060-SCU (No.1)

CNPF

PCA-N3060-PSU

PCA-2706XA NIU

TB1 PortA: 1+ 1- G
TB2 PortB: 1+ 1- G
J1

CN2 CN1 + -   CN2 CN1 + -

B   A

PCA-N3060-FIM2

PCA-N3060-SCU (No.1)
PCA-N3060-SCU (No.2)
PCA-N3060-SCU (No.3)
PCA-N3060-SCU (No.4)
PCA-N3060-SCU (No.5)
PCA-N3060-SCU (No.6)

PCA-N3060-PSU (No.1)
PCA-N3060-PSU (No.2)

AC/DC Switching power supply unit

PCA-2706XA NIU

B   A

PCA-N3060-FIM2

Battery   Battery

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