







"Nohmi Quality" you can trust

#### 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.

#### Distributed by:



Tel: +81-3-3265-0231 Fax: +81-3-3265-5348

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

# I BOSAI LTD. Fire Alarm Syste a Number 180425®-F-2400YC

# Fire Alarm System Product Brochure



"Nohmi Quality" you can trust

# We give shape to the "FUTURE OF FIRE SAFETY"

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.





# contents

200	1 Address la Constant and a control of the control	5
	Addressable fire alarm control panels and annunciators	P
	2. Analog addressable fire detectors	P
	3. Addressable detector bases	
- COOK	4. Addressable modules	P!
	5. System monitoring program	P'
121 - 1	6. Address setting unit	
Conventiona	al fire alarm systems	
	1. Conventional fire alarm control panels	P
	2. Conventional fire alarm annunciators	
	3. Conventional spot type smoke detectors	
	Conventional projected beam smoke detectors     Conventional rate-of-rise heat detectors	
	5. Conventional rate-of-rise near detectors	D
-	6 Conventional fixed temperature heat detectors	
	6. Conventional fixed temperature heat detectors 7. Conventional flame detectors	
	<ul><li>6. Conventional fixed temperature heat detectors</li><li>7. Conventional flame detectors</li><li>8. Conventional gas detectors</li></ul>	
Aspirating s	7. Conventional flame detectors	
Aspirating s	7. Conventional flame detectors 8. Conventional gas detectors	P1
Aspirating s  Others	7. Conventional flame detectors 8. Conventional gas detectors  moke detection system	P1
	7. Conventional flame detectors 8. Conventional gas detectors  moke detection system	P1
	7. Conventional flame detectors 8. Conventional gas detectors  moke detection system  Conventional aspirating smoke detector	P1
	7. Conventional flame detectors 8. Conventional gas detectors  moke detection system  Conventional aspirating smoke detector  1. Notification appliances  2. Manual stations 3. Location lamps	P1
	7. Conventional flame detectors 8. Conventional gas detectors  moke detection system  Conventional aspirating smoke detector  1. Notification appliances  2. Manual stations	P1
	7. Conventional flame detectors 8. Conventional gas detectors  moke detection system  Conventional aspirating smoke detector  1. Notification appliances  2. Manual stations 3. Location lamps	P1 P1
	7. Conventional flame detectors 8. Conventional gas detectors  moke detection system  Conventional aspirating smoke detector  1. Notification appliances  2. Manual stations 3. Location lamps 4. Remote indicator lamps	P1

#### Emergency voice alarm communication systems

9. Lightning arrestor units

8. Miscellaneous



1. Multiplex network system

2. Conventional systems

# Addressable fire alarm systems

#### 1. Addressable fire alarm control panels and annunciators

#### N3060 fire alarm control panels



- 2 to 12 loops per FACP
- 127 or 255 addresses per loop selectable
- Max. 3,060 addresses per FACP
- 10.4 inch color touch screen
- Max. 64 nodes per network
- NFPA Class A (Styles 6 & 7) and Class B (Style 4) for SLC
- 4 NACs, 6.0A in total (optionally expandable up to 16A with an additional power supply unit)
- 2,500 event history buffer
- 110 to 240V, 50/60Hz for AC universal input
- 12Ah to 65Ah backup battery capacity

- UI listed





Video

#### Annunciators for N3060

#### [1] FIR009-R-LCD



- 40 letters x 4 lines LCD
- 11 status LEDs
- Built-in buzzer
- 6 system control switches
- [2] FIRU009-R-LED



- 16 zone status indicators
- 6 system status LEDs
- Built-in buzzer
- Buzzer silence switch / Visual indicator test switch

- Key lock switch to protect system control switch operation
- 24VDC for rated operating voltage
- UL listed

#### Key lock anti-tamper protection for switch operation

- 24VDC for rated operating voltage
- UL listed

#### [3] PCA-N3060-LDM



- 32 LED driver outputs for zone status indications
- Consecutive or random zone number assignment available
- Audible alarm device (Built-in buzzer)
- Power supply status LED and signal transmission status LED
- 24VDC for rated operating voltage
- UL listed

#### ■ S508 fire alarm control panel



- 1 to 4 loops per FACP
- 127 addresses per loop
- Max. 508 addresses per FACP
- 20 letters x 4 lines LCD
- NFPA Class A (Styles 6 & 7) and Class B (Style 4) for SLC
- 4 NACs, 6.0A in total
- 2,000 event history buffer
- 120 or 230V, 50/60Hz for AC input
- 8Ah to 40Ah back-up battery capacity
- UL listed



Data She

#### Annunciators for S508

#### [1] FIRU006-LCD



- 20 letters x 4 lines LCD
- 10 status LEDs
- 6 system control switches, ten-key, and arrow keys
- Key lock switch to protect system control switch operation
- Built-in buzzer
- 24VDC for rated operating voltage
- UL listed

#### [2] FIRU007-LED



- 14 zone status indicators
- 6 system control switches
- Key lock switch to protect system control switch operation
- Built-in buzzer
- 24VDC for rated operating voltage
- UL listed

### 2. Analog addressable fire detectors



Data Sheets

# Analog photoelectric smoke detectors [1] FDKU012-PSA

# .,...

- Low profile, less than 2 inches with the base
- Wide sensitivity range of 3.4 to 12.0%/m (1.05 to 3.82%/foot)
- True analog detector
- UL listed smoke calibration and sensitivity

#### [2] FDKU026-D-X



- Very low profile (28.7mm/1.13-inch only in height)
- Wide alarm set-point range of 3.4 to 11.6%/m (1.05 to 3.69%/foot)
- True analog detector
- UL listed smoke calibration and sensitivity

- Simple and accurate address setting without mechanical switches
- LEDs for 360° viewing
- 22.0 to 24.0V for working voltage range of SLC
- UL listed
- Simple and accurate address setting without mechanical switches
- LEDs for 360° viewing
- 22.0 to 24.0V for working voltage range of SLC
- Ul listed

#### Analog fixed temperature heat detectors

#### [1] FDLU009-FHA



- 57°C to 85°C (135°F to 185°F) heat sensor
- Low profile
- Simple and accurate address setting without mechanical switches
- LEDs for 360° viewing

- Ambient temperature listing of 0°C to 66°C (32°F to 150°F)
- 22.0 to 24.0V for working voltage range of SLC
- UL listed

#### [2] FDLU019-D-X



- Very low profile (30.7mm/1.21-inch only in height)
- 57°C to 85°C (135°F to 185°F) heat sensor
- True analog detector
- Ambient temperature listing of 0°C to 66°C (32°F to 150°F)
- Simple and accurate address setting without mechanical switches
- LEDs for 360° viewing
- 22.0 to 24.0V for working voltage range of SLC
- UL listed

#### Analog rate-of-rise/fixed-temp. combination heat detectors

#### [1] FDHU002-RHA



- Adjustable fixed 57°C to 79°C (135°F to 174°F)
- Rate-of-rise feature
- Simple and accurate address setting without mechanical switches
- LEDs for 360° viewing
- UL listed

#### [2] FDHU003-D-X



- Very low profile (30.7mm/1.21-inch only in height)
- Adjustable fixed 57°C to 79°C (135°F to 174°F)
- True analog detector for fixed temperature
- Rate-of-rise feature

- Simple and accurate address setting without mechanical switches

- 22.0 to 24.0V for working voltage range of SLC

- LEDs for 360° viewing
- 22.0 to 24.0V for working voltage range of SLC
- UL listed

#### Analog photoelectric-smoke/fixed-temp-heat combination detectors

#### [1] FDKLU001-PSHA



- Wide sensitivity range of 3.4 to 12.0%/m (1.05 to 3.82%/foot)
- 57°C (135°F) restorable heat detector
- True analog detector

- Simple and accurate address setting without mechanical switches
- LED for 360° viewing
- 22.0 to 24.0V for working voltage range of SLC
- UL listed

 $\mathbf{3}$ 

#### [2] FDKLU026-D-X



- Very low profile (38.0mm/1.50-inch only in height)
- Wide alarm set-point range of 3.4 to 11.6%/m (1.05 to 3.69%/foot)
- 57°C (135°F) restorable heat detector
- True analog detector

- Simple and accurate address setting without mechanical switches
- LEDs for 360° viewing
- 22.0 to 24.0V for working voltage range of SLC
- UL listed

#### Analog photoelectric projected beam smoke detector, FDGJ002-D-X



Data Sheet

- Wide and high coverage within 100m distance
   Sensitivity drift compensation for contamination or a slight shift in the optical system
- Light synchronized system to prevent false alarms
- Simple optical axis setting

- Simple and accurate address setting without mechanical switches
- 24VDC for rated operating voltage of SLC

#### 3. Addressable detector bases



Data Sheets

#### 2-terminal base, FZBU013-2Z



- Standard 2-wire detector base
- UL listed

## 4-terminal base, FZBU013-4Z



- Standard 2-wire system with remote indication circuit
- UL listed

#### 4-terminal base, FZBU004-AB4



- Standard 2-wire system with remote indication circuit
- Optional locking tab to prevent unwanted removal
- UL listed

#### Isolator base, FZBU005-AIB



- Short circuit isolator integrated in detector base
- Self restoring
- Optional locking tab to prevent unwanted removal
- 22.0 to 24.0V for working voltage range of SLC
- UL listed

#### Sounder base, FZBU005-ASB



- Integrated sounder in detector base
- Sound output at 75 dB (UL 464 listed)
- Sounder independent of detector
- May be mapped to any device connected to the control panel
- Simple and accurate address setting without mechanical switches
- Optional locking tab to prevent unwanted removal
- 22.0 to 24.0V for working voltage range of SLC
- UL listed

#### 4. Addressable modules



Twin relay module, FRRU004-TRM4



- Dry contact addressable module
- Two typical form C dry contacts at 24VDC 2A, 125VAC 0.5A
- One simple LED for status indication
- 22.0 to 24.0V for working voltage range of SLC  $\,$
- Simple and accurate address setting without mechanical switches
- UL listed

#### Miniature contact module, FRRU004-MCM



- Input signal addressable module, mini-size
- NFPA Class B (Style B) for IDC
- $5.1k\Omega$ , 1/2W end-of-line resistor for IDC
- 22.0 to 24.0V for working voltage range of SLC
- Simple and accurate address setting without mechanical switches
- UL listed

#### Single contact module, FRRU004-SCM4



- Input signal addressable module
- One simple LED for status indication
- NFPA Class B (Style B) for IDC
- 5.1kΩ, 1/2W end-of-line resistor for IDC
- 22.0 to 24.0V for working voltage range of SLC
- Simple and accurate address setting without mechanical switches
- UL listed

#### Dual contact module, FRRU004-DCM4



- Input signal addressable module, two inputs
- One simple LED for status indication
- NFPA Class A (Style D) and Class B (Style B) for
- One address in Class A, two addresses in Class B for IDC
- 5.1kΩ, 1/2W end-of-line resistor for IDC in Class B
- 22.0 to 24.0V for working voltage range of SLC
- Simple and accurate address setting without mechanical switches
- UL listed

#### Conventional initiating zone module, FRRU004-CIZM4



- Addressable module for conventional detectors
- One simple LED for status indication
- NFPA Class A (Style D) and Class B (Style B) for IDC
- 15.7 to 22.6V output voltage range of IDC
- $5.1k\Omega,\,1/2W$  end-of-line resistor for IDC in Class B
- 22.0 to 24.0V for working voltage range of SLC
- Simple and accurate address setting without mechanical switches
- UL listed

#### Monitored output module, FRRU004-M0M4



- Wet output addressable module
- One simple LED for status indication
- NFPA Class B (Style Y) for NAC
- UL listed with Potter/Amseco®, Gentex®, and Cooper Wheelock® syncro-modules and devices
- 24VDC, 2A rating for connected device power (releasing device and NAC)
- $5.1k\Omega$ , 1/2W end-of-line resistor value for notification appliance
- $5.1k\Omega,\ 1/2W$  with diode, end-of-line device for releasing device
- 22.0 to 24.0V for working voltage range of SLC
- Simple and accurate address setting without mechanical switches
- UL listed

#### Short circuit isolator, FQIU004-SCI



- One simple LED for status indication
- Self-restoring LED indication
- 22.0 to 24.0V for working voltage range of SLC
- UL listed

#### Wet output module 4-circuit, 1 address, FRRJ001A-Y-S



- 1 address with 4 circuits
- Return signal per circuit for device activation confirmation
- Circuits applicable to input signals
- 2A maximum voltage output per circuit
- Dry typical form A contact for return signal
- 24.0V for rated operating voltage of SLC
- Simple and accurate address setting without mechanical switches
- Slim unit

#### Wet output module 16-circuit, 4-address, FRRJ001A-Y-4S



- 4 addresses with 16 circuits
- Return signal per circuit for device activation confirmation
- Circuits applicable to input signals
- 2A maximum voltage output per circuit
- Dry typical form A contact for return signal
- 24.0V for rated operating voltage of SLC
- Simple and accurate address setting without mechanical switches
- Slim unit

#### Dry contact module 4-circuit, 1 address, FRRJ001A-Y-SS



- 1 address with 4 dry contacts and 4 inputs
- Return signals or input signals available
- Dry typical form A contact at 30VDC, 2A rating
- 24.0V for rated operating voltage of SLC
- Simple and accurate address setting without mechanical switches
- Slim un

#### Dry contact module, 16-circuit, 4-address, FRRJ001A-Y-4SD



- 4 addresses with 16 dry contacts
- Dry typical form A contact at 30VDC, 2A rating
- 24.0V for rated operating voltage of SLC
- Simple and accurate address setting without mechanical switches
- Slim unit

#### Addressable module for gas detector, FRRJ001-Y-G



- 1 address with 4 circuits
- 1 gas detector per circuit connectable
- Model KP35B for LPG and model KN35B for natural gas manufactured by Fuji Electric connectable
- 24.0V for rated operating voltage of SLC
- Simple and accurate address setting without mechanical switches
- Slim uni

#### Addressable module for initiating device 4-address, FRRJ001-Y-4F



- 4 consecutive addresses per unit
- NFPA Class B (Style B) for IDC
- Nohmi conventional fire detectors compatible
- 24.0V for rated operating voltage of SLC
- Simple and accurate address setting without mechanical switches
- Slim unit

#### Addressable module for initiating device 16-address, FRRJ001-Y-16F



- 16 consecutive addresses per unit
- NFPA Class B (Style B) for IDC
- Nohmi conventional fire detectors compatible
- 24.0V for rated operating voltage of SLC
- Simple and accurate address setting without mechanical switches
- Slim unit

#### 5. System monitoring program



ata Sheets

#### System monitoring program, CNI016N



- Max. 195,840 addresses configurable per SMP
- Max. 64 nodes available on network
- Remote monitoring of networked system via VPN
- Max. 1,000,000 symbols available per SMP
- DXF & BMP data applicable to floor plans
- Group functionality same as FACP
- Current event list

- Event log for up to 50,000 events per SMP
- Analog value trend indication
- Sensor monitoring
- 4 system control switches
- Designed for Microsoft Windows XP, Vista, 7, 8, and 10

#### System interface unit, CSC004



- NFPA Styles 4 and 7 wiring applicable
- Max. 64 nodes available on network
- Max. length between two nodes as 600m for copper/metal cable, 2,000m for 50/125 fiber optic cable, 1,700m for 62.5/125 fiber optic cable, and 5,000m for 9/125 fiber optic cable
- Status LEDs
- 110V and 240V for AC universal input

#### 6. Address setting unit

#### FZAW004-P



- Electronic address setting compatible with all Nohmi addressable devices

# Conventional fire alarm systems

# 1. Conventional fire alarm control panels



1 zone without telephone system, FAP230N-1L



- Dedicated 1 zone fire alarm system
- Simple fire alarm functionality
- Various test functions

- Back-up power supply (Ni-Cd battery)
- 220V, 50/60Hz for AC input

#### 5 zones without telephone system, FAPN202-R-5L



- Dedicated 5 zones fire alarm system
- Simple fire alarm functionality
- Various test functions
- Self diagnosis system

- Mis-operation inhibit function
- Built-in surge arrestor for power lines
- Back-up power supply (Ni-Cd battery)
- 220V, 50/60Hz for AC input

#### 10 and 20 zones with telephone system, FAPN105N series fire alarm control panels



- 10 and 20 zones fire alarm system available
- Various test functions
- Self-diagnosis system
- Mis-operation inhibit function
- Built-in surge arrestor for power lines
- Built-in telephone system

- Fire zone indication by both zone plates and digital display
- 1,000 event log
- Functions programmable at site
- Back-up power supply (Ni-Cd battery)
- 220V, 50/60Hz for AC input

#### 30 to 100 zones with telephone system, FAPN104N series fire alarm control panels



- 30 to 100 zones fire alarm system available
- Various test functions
- Self-diagnosis system
- Mis-operation inhibit function
- Built-in surge arrestor for power lines
- Built-in telephone system
- Fire zone indication by both zone plates and digital display
- 25 programmable dry contacts
- 10,000 event log
- Functions programmable at site
- Back-up power supply (Ni-Cd battery)
- 220V, 50/60Hz for AC input

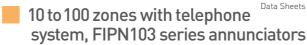
#### 2. Conventional fire alarm annunciators



5 zones without telephone system, FIPN203-S-5L



- Dedicated to 5 or less 5 zones fire alarm system
- Zone plate indication with red LEDs
- Audible device (electronic buzzer)





- 10 to 100 zones fire alarm system applicable
- Zone plate indication with red LEDs Built-in telephone system
- Audible device (electronic buzzer) equipped

## 3. Conventional spot type smoke detectors







- Very low profile
- 2-wire system
- 24VDC for rated operating voltage
- Small monitoring current of 45µA
- Remote indication circuit available (FDK246-X)

#### FDK01U



- 2-wire system
- 10.2 to 36.8VDC wide working voltage range (nominal 24VDC)
- Small monitoring current of 45µA

- Remote indication circuit available
- UL listed

#### 4. Conventional projected beam smoke detectors

#### FDGJ series - FDGJ103-D-X, FDGJ203-D-X



- Wide and high coverage within 100m distance
- Sensitivity drift compensation for contamination or a slight shift in the optical system
- Light synchronized system preventing false
- Simple optical axis setting
- Optical remote test switch for easy
- 24VDC for rated operating voltage



#### 5. Conventional rate-of-rise heat detectors

#### FDPJ series - FDPJ106-D, FDPJ206-D, FDPJ206-D-T, FDPJ206-D-M, FDPJ206-D-X



- Low profile
- 2-wire system
- Remote testing mechanism available (FDPJ206-D-T)
- Response lamp holding circuit available (FDPJ206-D-M)
- Remote indication circuit available (FDPJ206-D-X)
- 30VDC 75mA for contact ratings



#### 6. Conventional fixed temperature heat detectors

#### FDLJ series - FDLJ906-D-65, FDLJ906-DW-65, FDLJ106-DW-X75, FDLJ106-DW-S75



- 65°C or 75°C operating temperature
- 2-wire system
- Physical protector equipped
- Alarm response lamp (LED)
- Water proof type available (FDLJ906-DW-65, FDLJ106-DW-X75, FDLJ106-DW-S75)
- Remote indication circuit available (FDLJ106)
- Dry contact circuit available (FDLJ106-DW-S75)
- 30VDC 75mA for contact ratings (62mA for FDLJ106-DW-S75)



#### 7. Conventional flame detector

#### FDCJ002-D-X



- CO2 resonance radiation principle, operation on flickering flame
- 2-wire system
- 13 to 20m monitoring distance

- 100° angle view for detection
- With remote indication circuit
- 24VDC for rated operating voltage

#### 8. Conventional gas detectors

#### Liquefied natural gas detector KN-35D



- Catalytic combustion for gas detection
- 4-wire system (2-wire for power, 2-wire for connection to control panel)
- 3 voltage output signals for fault (OV), monitoring (6V) and alarm (12V)
- 24VDC for rated operating voltage

#### Liquefied petroleum gas detector KP-35D



- Catalytic combustion for gas detection
- 4-wire system (2-wire for power, 2-wire for connection to control panel)
- 3 voltage output signals for fault (OV), monitoring (6V) and alarm (12V)
- 24VDC for rated operating voltage

# Aspirating smoke detection system

#### Conventional aspirating smoke detector

#### ProtecView FDNJ002U-R



- Super-high to low level sensitivity from 0.001 to
- Total scattered light detection principle
- Large flow rate fan
- Bar graph smoke density indicator
- 24VDC or 100VAC for rated operating voltage
- Stand-alone system product
- UL listed
- FM approved



#### **Others**

#### 1. Notification appliances

#### Fire alarm bells - FBM01U-D, FBM023, FBM023-D, FBM023Z-D, FBW013-EA



- Motor driven type alarm bell
- High sound output with low current consumption
- Low RFI noise
- Lead wire connection
- 24VDC for rated operating voltage

- Rainproof type available (FBW013-EA)
- Polarized type available (FBM01U-D, FBM023-D, FBM023Z-D)
- UL listed product available (FBM01U-D)



Data Sheet

#### Electronic buzzer FBZ11



- Piezo-electric controlling method
- Continuous and intermittent soundings available
- 24VDC for rated operating voltage

#### Strobe S-24WR



- Low profile
- Field selectable candela options of 15, 30, 60, 75, and 110
- NAC synchronization feature with Nohmi addressable FACPs or dedicated modules
- Instant voltage verification feature
- 24VDC for rated operating voltage



Data Sheet

#### Horn EH-24R



- Low profile
- NAC synchronization feature with Nohmi addressable FACPs or dedicated modules
- Instant voltage verification feature
- 12VDC or 24VDC for rated operating voltage

#### Strobe/Horn HS-24WR



- Low profile
- NAC synchronization feature with Nohmi addressable FACPs or dedicated modules
- Instant voltage verification feature
- 12VDC or 24VDC for rated operating voltage

#### 2. Manual stations

# FMMN, FMRN, FMBN series – FMMN102-U, FMMN102-U2, FMMN202-U, FMRN102-U, FMBN102-U, FMBN102-UW



- Cutting-edge compact design
- Push-button-type
- Easy reset after operation
- Addressable and conventional types available
- 30VDC 500mA (FMMN & FMRN) for contact ratings
- Telecommunication means provided (except for FMMN202-U)
- Response lamp provided (except for FMMN202-U)



Data Sheet

#### FMM01U series - FMM01U-SK2, FMM01U-SK1



- Single or dual action pull down activation
- Key reset
- 30VDC 1A or 125VAC 1A for switch contact ratings
- Terminal connectors

- Gold plated SPST and contacts
- High-gloss enamel finish
- Plastic break rod
- UL listed



Data Sheet

#### 3. Location lamps

#### FLPJ series - FLPJ002, FDPJ002-W, FLPJ004, FLPJ004-W



- Cutting-edge new design
- Noticeable red color
- Low current and high durability
- Wide and high visibility
- Outdoor type available



Data Sheet

#### 4. Remote indicator lamps

#### FLL series - FLL061-B, FLL061-C



- White cover plate and red LED with translucence lamp cover
- Two sizes available (70mm x 115mm and 65mm x 88mm)
- 50mA maximum rated current
- John maximum rated current

#### 5. Combination boxes

#### FWLN series



- Three-in-one composition (location lamp, manual station, alarm bell)
- Cutting-edge new design

- Surface and recess mountings available
- Easy installation and maintenance



Data She

#### 6. Explosion proof devices

#### Manual station FMEJ201-RG(1/2 R10)



- Flame proof and explosion proof product
- ExdelICT6 for explosion class and ignition grade
- Location lamp equipped

- Applicable to both indoor and outdoor uses
- 24VDC for rated operating voltage

#### Fire alarm bell EMB-6 DC24V



- Rain proof and explosion proof product
- ExdIIBT4 for explosion class and ignition grade
- 24VDC for rated operating voltage

#### Location lamp EC2A-110M

- ExdIIBT4 for explosion class and ignition grade
- 24V AC/DC rated operating voltage

## Fixed temperature heat detector FDL120 series - FDL120-E-60~150



- 60 to 150°C temperature detection range
- d, 2, G4 for explosion proof construction, explosion class, and ignition grade
- 30VDC 100mA for contact ratings

#### 7. Fire door closing devices

#### SLDJ004 series – SLDJ004-U-E, SLDJ004-U-M



- Latch type - Electrical resetting type and manual resetting type available
- 24VDC for rated operating voltage

#### 8. Miscellaneous

#### Protector for heat & smoke detectors FZP012-L



#### Telephone handset SC-PA1



#### 9. Lightning arrestor units

#### FZL116N series - FZL116N-40L (40 terminals), FZL116N-80L (80 terminals)

#### [Arrester unit and diode unit]



- 60VDC or less for max. permissible circuit
- DC or not more than 150KHz for frequency band
- Impulse protection performance
- \* In common mode -Between a line and ground ~Initial max value 350V or less
- ~Max. value during operation 20V or less
- \* In normal mode -Between any two lines ~Initial max value 350V or less
- ~Max. value during operation 20V or less
- 20kA for impulse current (at impulse current waveform of 80/20µS)

#### [Protector]

- 200/200V for applicable circuit voltage

# Emergency voice alarm communication systems

#### 1. Multiplex network system

#### NFMX series



#### [Master panel NFMX-MP]

- True multiplex 6-channel networked audio
- Integrated fire phone
- Modular system
- Integrated 2-channel digital message repeater
- Live microphone page to any zone
- 4-minute message capacity
- Backup battery
- 240V 50Hz for AC input



#### [Fire phone station MX-FS]

- Coil cord / Thumb turn latch cabinet
- Red, surface / semi-flush mount

#### [Warden station MX-WS]

- Amored cable / Thumb turn latch cabinet
- Red, surface / semi-flush mount



#### [Telephone cabinet]

- Holds 6 MX-FH portable handset
- Charcoal gray (std) or red, surface / semiflush



#### [Telephoe jack]

- Brushed stainless steel single gang plate



#### [Portable handset]

- Red color

#### 2. Conventional systems

#### NFVP series-NFVP-25/50/100, NFVP-150/200



- 8 megabyte MP3 driver with message capacity of 20 minutes
- 25/50/100 watt bullet-proof amplifier for NFVP-25/50/100, 150/200 watt for NFVP-150/200
- 25 or 70 VRMS field selectable Class A/B speaker circuit
- Live microphone override of message and tone
- Studio quality voice recordings built-in alarm and alert signals
- 3 minutes message restart on microphone key
- Backup battery
- 240V 50Hz for AC input



Data Sheet





Data Sheet