wizmart

WORLD CLASS PROTECTION

A full range of Wizmart products to protect lives and properties

wizMart 威茲馬特集團公司 由數個子公司及歐美策略夥伴組成。在精密安全傳感產業上含蓋電子消防，安防及居家人身安全產品。我司集研發，生產，及行銷為一體。在台灣設有合作研發及銷售據點，在大陸寧波之江北區洪塘創新科技園區內擁有五十畝土地及四萬多平方米之生產及研發中心，並另有駐廠研發團隊全力開發新產品。本集團擁有多項精密生產及研發設備，尤其在專業傳感報警系統上配備德國原裝進口之羅倫思(Lorenz)歐規煙熱報警測試儀器，美國UL官方認證火災實驗室測試設備，日本JFEII 煙熱報警測試設備，中國瀋陽消防所標準煙箱。在全廠六百多名員工及五十餘名資深工程師之努力下，並感謝十數位世界級傳感學專家，博士及教授們的長年指導協助，持續順利取得各項安規認証，如美國 UL, FM, ETL，加拿大 cUL, ULC, 德國 VdS, 法國 NF, CNPP, 英國 LPCB, BRE, UKCA, 比利時 ANPI, 西班牙 APPLUS, 台灣 TFTF, CFS, 中國 CCCF, 歐盟 EN-54, 歐盟EN-14604 及許多世界各國之當地安全規範。我司也是在中國特許核准生產消防設備之專業工廠之一；並預計在 2023 年達到生產3500萬支各種傳感報警器及配套週邊產品之目標。

威茲馬特集團立足寧波，誠信為本，放眼世界，全球佈局。在專業領域上全力研發。尤其在JDM合作開發項目上 (Joint Development Manufacturing) 不停突破，從美工設計，模具開發，結構策劃，電路佈板，軟件及硬件設計編程，全球安規認証，生產採用德國西門子 SMD 超高速貼片封裝設備，半自動機器人組裝生產流程，百分之百全線產品嚴格測試都在廠內一條龍方式完成。本廠在德國 TUV, 及美國 UL 質量監督系統下，以 ISO-9001:2015 的精神落實一切程序。

wizMart 產品行銷世界一百餘國，遍及五大洲，除了少部份以代工型式 OEM 生產之外，更著重於設計生產 (ODM)，合作生產 (JDM)。目前並已和世界知名大廠十數家策略聯盟開發，不僅在高科技含量大之有毒可燃氣體報警設備上有多項進展 (如一氧化碳，瓦斯等)，在傳統之火災報警系統，智能無線家居集成，及智慧火災物聯網上亦有創新產品源源不斷推出。在行銷導向原則下掌握需求，本公司以**wizMart**自我品牌誠懇行銷全球，並結合策略聯盟代工代設計之合作方式確實貫通世界市場渠道，建立自我產銷一體化之目標。

我們的企業認定所有員工為公司最大資產，全力在生命安全產業中的精密智能電子領域上奮鬥，以期達成我們的願景：不斷創新，大量生產，創造經濟，回饋社會。威茲馬特團隊提供有經驗的ISO管理、研發實力及市場開展，歡迎尊敬的火災報警、電子業前輩,同業及有志之士不吝指教並熱誠參與共創大業。

董事長, 總執行長 _____

wizmart Group consists of multiple operating units located in different countries with headquarters in Taiwan. It is a privately-owned company with years of experience in designing and manufacturing life safety detectors and alarms in the fire and security markets. We have also established strategic partnerships with many well-known companies in Europe and USA / CANADA.

Chairman, CEO

Manchee Liu

Our wide range of products include detection and signaling equipment in the fields of smoke, fire, CO, heat, flame, gas , water and various toxic gases. We apply consistent and high standards to our end-to-end manufacturing process. This includes tooling, molding, plastic injection, artistic designs, mechanical layout, circuitry design, hardware assembly, embedded software programming, approval application and mass production. Every process has been certified under the ISO- 9001:2015 quality assurance system.

wizmart manages its R&D, engineering, manufacturing and marketing functions with an integrated team approach. It has a marketing office with cooperative R&D partners in Taiwan and a design/manufacturing center in Ningbo, China that encompasses 43,000 square meters of production space.

The manufacturing center is fully equipped with precise German EN-54 and USA UL testing and calibration equipment, in-house ultra high speed Siemens surface mount machine (SMD) and semi-automatic smoke and toxic gas production lines. To strive for zero defects, **wizmart** was the first manufacturer in Asia to install the complete set of German Lorenz EN- 54 smoke test tunnels and UL certified testing labs and facilities.

Since 2018, **wizmart** has collaborated with our new partner **Snido Intelligent Solutions** (based in EU) to produce a range of intelligent control panels and accessories. These products will enable us to provide our customers with a complete end-to-end system package for fire detection and alerting with integrated notification and monitoring capabilities. All products will be submitted for 3rd party certification and approval in multiple jurisdictions to meet the requirements of our global partners.

wizmart Since 2003

Managing Taem

Wayne Chang
President

Aruba Chang
Senior Vice President
Production & Management

Amy Chen
Senior Vice President
Finance & Management

Irene Hsu
Vice President
Sales

Alice Pai
Vice President
Sales

Through the dedication and teamwork of our engineering staff and strategic partners, **wizmart** has obtained many product approvals such as UL-FM / USA, cUL-ULC / CANADA, VdS / Germany, NF-CNPP / FRANCE, LPCB-BRE-UKCA / UK, APPLUS / SPAIN, ETL (Intertek USA), EN- 54, EN 14604, ANPI, TFTF-CFS / TAIWAN, CCCF / CHINA, BRE Marine Equipment Directive 2014/90/EU, etc. Our manufacturing capacity is over 20 million units per year and continues to grow with the introduction of new products.

In anticipation of introducing and implementing the new UL268 standard requirements in 2022, **wizmart** has invested in a new state-of-the-art fire test lab for fire alarms. The new UL-compliant fire test lab has the capability of conducting all required tests to meet the new UL268 standard and with approval from UL to provide factory certification.

The **wizmart** team believes in passion, integrity, commitment and innovation. we didn't invent detectors, but we have been doing our best to perfect them.

Our success depends on your success !

From Ideas to Final Products

Design and Tooling Service

JDM (Joint Development Manufacturing) is a professional service Wizmart offers as part of the electronics manufacturing contract. It provides total solutioning and one-stop-shopping experience for our customers. The Wizmart team ensures your ideas are implemented with the best return on investment.

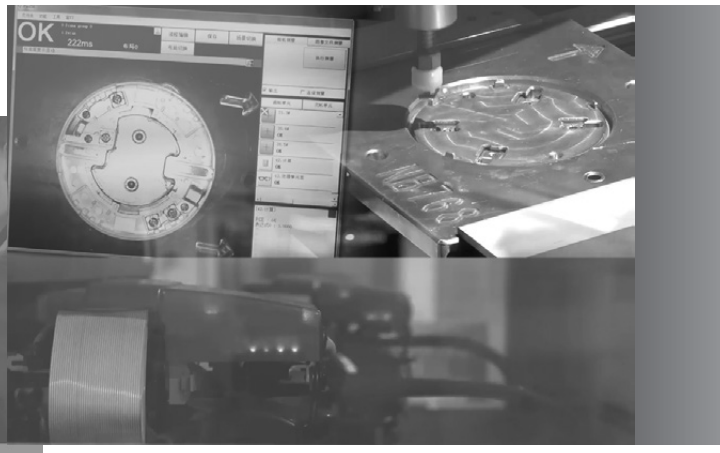
Step 1 – We offer FREE technical consultation sessions with the customer to jointly discuss the original idea, specifications, cost estimate and feasibility. After an agreement is signed for advanced study, we will provide the customer with quick artistic design of 3-D dynamic presentation, specification sheets, mechanical drawing and mock-ups (3-D printing or Rapid Laser SLA molding for a quick turnaround time of 3-5 days).

Step 2 – After obtaining customer´s consent to move forward from Step 1, the Wizmart team will start prototyping which includes software and hardware design, material procurement study, engineering sample making, testing and calibration etc. Depending on the complexity of the project, most cases will have a fast response of within 40-60 days. After receiving the customer's acceptance of the prototype samples, we will follow up by making formal tooling and molding (normally within 30-45 days), then present the customer with engineering samples and completed full functional testing results.

Step 3 – After receiving customer's acceptance on the prototype, we will then proceed to production. We will also assist our customer to obtain any required international approvals such as VdS, GS, UL, FM, cUL, LPCB, ETL, EN-54, BOSEC, CCCF, ANPI etc.

Wizmart's strength is mainly in manufacturing life safety related commercial and consumer products such as fire and water alert, smoke alarms, CO, gas, UV, flame detecting devices. However, our professionalism does not limit us in manufacturing alone. We have demonstrated success in working together with partners around the world in designing and manufacturing various electronic products. We strive to provide JDM service to our customers with innovative, high quality, competitive pricing and on-time delivery.

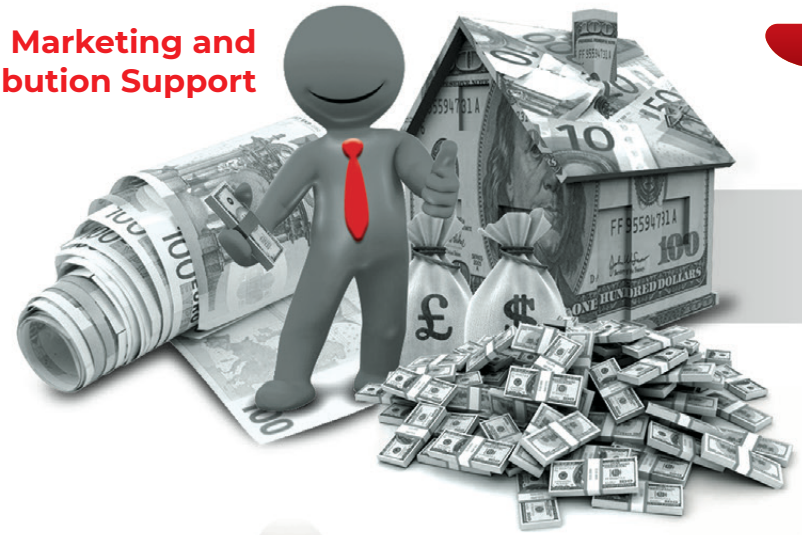
Our goal is to be your most reliable and long-term JDM partner in the Far East.



JDM

Joint Development Manufacturing

Marketing and Distribution Support



SLA / Mockup
Tooling Design
Engineering Sample

Approval Application

If needed
(UL, FM, VdS, NF, EN-54, LPCB, VdS, CCCF)

Private Label / OEM Production

Engineering Discussion

- Specification
- Safety Standards
- Approvals
- PCB Design

Art Work Design

Housing ,Color Box, packaging
3D Animation Also Available.

IDEAS

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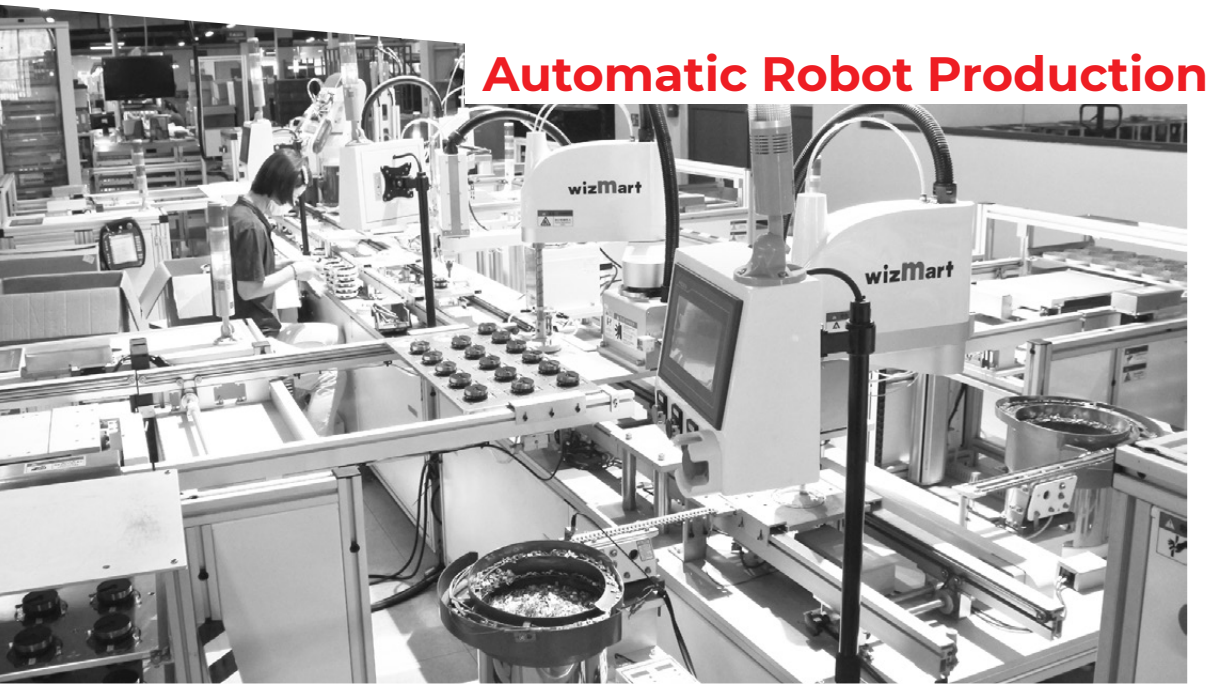
Group Discussion

Non-Disclosure Agreement Signed

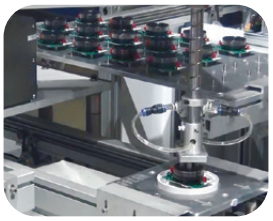
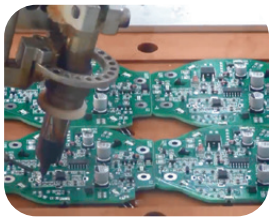
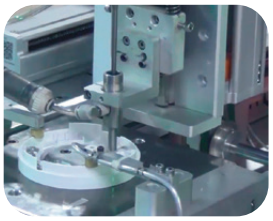
Manufacturing and Testing

Facilities

Automatic Robot Production Lines





UL officially certfied Fire Testing Lab.

(2022 UL-268 and UL-217 standards)





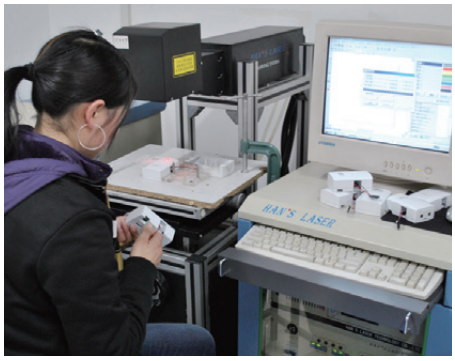
· Germany-made Siemens SMD - 3 lines of D4i and D1 surface mounting devices

· Programmble Controller Constant Temp. & Humidity Chamber

· CNC

· Burn-In Room

· AOI - Automated Operator Interface



· Laser Marking

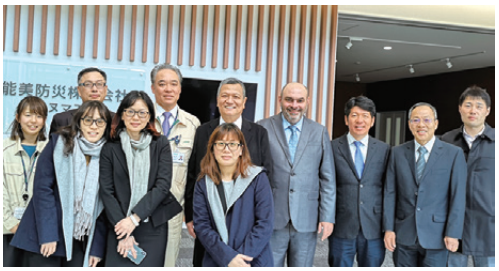
· UL Standard smoke chamber

· RoHS compliant Lead-Free Through-Hole production line

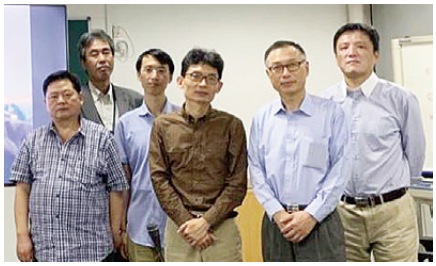
· Germany-made Lorenz EN-54 SmokeTunnel

· Automatic Robot Injection Machines

wizmart Family & Partners



Taiwan Vacation



Bali Vacation

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Product Listing

UL

NB-338 Conventional Smoke and Heat detectors
NB758 Conventional Smoke and Heat detectors
NB768 Analogue addressable Smoke & Heat detector
NB931CO Stand alone CO Alarm (battery powered)
NB932-AB Stand alone CO Alarm (AC+ battery powered)
NB240CO-E Conventional CO Detector (DC 10V~32V)
NB701 AC/DC Gas Alarm
RE-2554/2558 4/8 Zone Fire Alarm Control Panel
FPA84 Analogue Addressable Fire Alarm Control Panel

ULC

NB-338 Conventional Smoke and Heat detectors
NB758 Conventional Smoke and Heat detectors
NB768 Analogue addressable Smoke & Heat detector

ETL

NB768 Analogue addressable Smoke & Heat detector
NB240CO-E Conventional CO Detector (DC 10V~32V)

EN-54

NB323 Conventional Heat detectors
NB326 Conventional Smoke and Heat detectors
NB338 Conventional Smoke and Heat detectors
NB358 Analogue addressable Smoke & Heat detector
NB525 Conventional manual call point
NB765 Analogue addressable manual call point
NB380 Conventional Smoke and Heat detectors
NB390 Analogue addressable Smoke and Heat detectors

NF

NB-741 Stand-alone 3V battery Smoke Alarm

VdS

NB740 Stand-alone 3V battery Smoke Alarm
NB590 Wireless Smoke Alarm

LPCB

NB840 240V AC+9V battery backup Smoka Alarm
NB380 Conventional Smoke and heat detectors

CCCF

NB739 Stand-alone Smoke Alarm
NB751-IOT IOT Stand-alone 3V battery Smoke Alarm

CSIRO

Stand-alone Smoke detector (9V Battery)
Stand-alone Smoke detector (AC + 9V battery)

Factory approved by

- **Germany-TUV ISO 9001:2008**
- **Germany-VdS**
- **USA-UL**
- **USA-ETL**
- **China-CCCF**
- **Denmark-DIFT**
- **France-CNPP**
- **UK-LPCB**

Other local approvals: Turkey/ Russia/ Taiwan/ UAE/ Malaysia Belorussia/Middle East/Israel...etc

Home Stand-alone Alarms

Wizmart has a comprehensive range of devices suitable for residential applications. The range includes stand-alone and interconnected devices, including wireless solutions. Devices for the detection of smoke, heat, gas and water are available

NB840-S P. 16
Smoke Alarm
(AC+9V back-up Battery)

NB840-H P. 17
Heat Alarm
(AC+9V back-up Battery)

NB840-SH P. 18
Smoke / Heat Alarm
(AC+9V back-up Battery)

NB920 P. 32
Gas Alarm
(AC/DC, Natural Gas, Propane Gas)

THW P. 28
Wireless Remote Controller

NB838 P. 15
Smoke Alarm
(DC 9-36V)

NB580 P. 26
Wireless DC
Smoke Alarm

NB590 P. 27
Wireless DC
Smoke Alarm

NB739 P. 12
Smoke Alarm
(9V Battery)

NB707V P. 31
Tobacco Smoke Alarm
(Voice)

NB299 P. 19
Low Profile DC
Smoke / Heat Alarm

NB740 P. 13
Smoke Alarm
(3V lithium Battery)

NB741 P. 14
Smoke Alarm
(3V lithium Battery)

NB707A P. 30
Tobacco Smoke Alarm

NB757, 767, 777 P. 36
Battery powered residential
CO &/or Gas alarm

NB753 P. 23
Economic DC
smoke alarm

NB752 P. 22
Economic DC
smoke alarm

NB301 P. 20
AC/DC Smoke and
CO combo Alarm

NB138 P. 25
Water Alarm
(Flooding Alarm)

NB730 P. 24
Heat Alarm
(DC)

NB349 P. 29
Wireless Interconnection
Sounder strobe

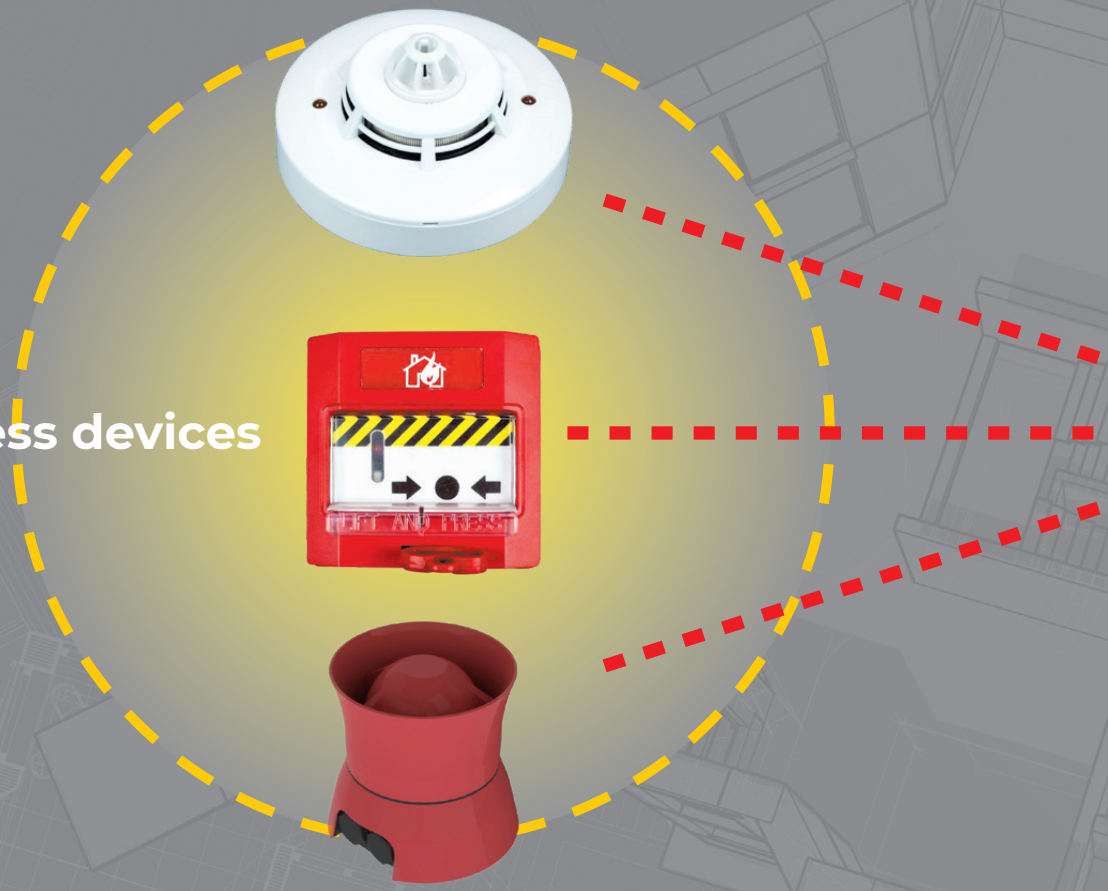
NB931 P. 34
CO Alarm

NB932AB P. 35
CO Alarm
(AC+9V back-up Battery)

PERCEPTION

Wireless fire detection

- Addressable and conventional PERCEPTION Translators
- PERCEPTION Wireless field devices
- Battery life exceeding EN54-25 requirements (5-10 years)
- Frequency agile for secure and reliable signalling
- Simple device addressing and registering on the system.
- Survey tool in ICE for smooth integration with UNO-S.
- Max Loop & Wireless Devices: 250
  Translator number of devices limited by local installation regulations. (30-40 devices)



"Perception is the sensory experience of the world.
It involves both recognizing environmental stimuli and actions in response to these stimuli. Through the perceptual process, we gain information about the properties and elements of the environment that are critical to our survival."
(Verywellmind.com)

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NB739

Smoke Alarm (9V Battery)

NB739 smoke alarms provide battery powered smoke detection and alarm functions within a single unit. NB739 smoke alarms do not require a mains supply and are suitable for general residential applications.

EN 14604

Key Features

- Photoelectric smoke sensing chamber technology
- Hush button to temporarily silence unwanted alarms available on some models
- Test button verifies battery and alarm operation
- Loud 85 dB sounder to alert occupants
- Depends on battery type, this single 9 V user-replaceable battery can provide from 12 months up to 10 years operation under normal conditions
- 30 day low battery warning signal
- Interconnection function available on some models to connect up to 38 units together
- Easy installation
- Low maintenance
- Low quiescent current consumption

TECHNICAL SPECIFICATIONS

POWER SOURCE	9 V Battery
ALARM RESPONSE THRESHOLD	0.10 dB/m ~ 0.16 dB/m
VISUAL ALARM INDICATOR	Red LED
AUDIBLE ALARM SOUNDER OUTPUT	≥ 85 dB @ 3 m
NUMBER OF INTERCONNECTED UNITS	38
LOW BATTERY SIGNAL	Audible signal each 30 s for 30 days
OPERATING TEMPERATURE	0 °C ~ +45 °C
OPERATING HUMIDITY	10 % ~ 90 % RH, non-condensing
DIMENSIONS	Ø 100 mm × 45 mm

ORDER CODE	Hush Button	Interconnect	Lithium Battery	Sealed Battery
NB739-1	✓			
NB739-1-I	✓	✓		
NB739-1-S	✓		✓	✓
NB739-1-I-S	✓	✓	✓	✓
NB739B-1				
NB739B-1-I		✓		

NB740

Smoke Alarm

NB740 smoke alarms provide battery powered smoke detection and alarm functions within a single unit. NB740 smoke alarms do not require a mains supply and are suitable for general residential applications.

VdS 3131

CE EN 14604

Key Features

- Photoelectric smoke sensing chamber technology
- Smoke chamber fault monitoring
- Test and Hush features in a single button
- Test condition verifies battery and alarm operation
- Hush feature reduces smoke sensitivity if the alarm is not a real fire. The hush time is 9 minutes.
- Alarm memory allows easy identification of a unit that has previously been in the Alarm condition
- Loud 85 dB sounder to alert occupants
- Sealed 3 V lithium battery, with 10 year life
- When the unit is removed from the mounting base, power is automatically internally disconnected
- 30 day low battery warning signal
- Interconnection function available on some models to connect up to 16 units together

TECHNICAL SPECIFICATIONS

POWER SOURCE	3 V Lithium Battery
ALARM RESPONSE THRESHOLD	0.10 dB/m ~ 0.16 dB/m
VISUAL ALARM INDICATOR	Red LED
LOCAL ALARM MEMORY INDICATOR	Green LED
AUDIBLE ALARM SOUNDER OUTPUT	≥ 85 dB @ 3 m
NUMBER OF INTERCONNECTED UNITS	16
LOW BATTERY SIGNAL	Audible signal each 30 s for 30 days
OPERATING TEMPERATURE	0 °C ~ +45 °C
OPERATING HUMIDITY	10 % ~ 90 % RH, non-condensing
DIMENSIONS	Ø 102 mm × 37 mm

ORDER CODE	Interconnect
NB740-S-1B	
NB740-S-1M	
NB740-ST-1B	✓
NB740-ST-1M	✓
NB740-S-2B	
NB740-S-2M	
NB740-ST-2B	✓
NB740-ST-2M	✓

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NB741

Smoke Alarm (3V Lithium Battery)

NB741 smoke alarms provide battery powered smoke detection and alarm functions within a single unit. Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms. NB741 smoke alarms do not require a mains supply and are suitable for general residential applications.

NF DAAF 292

CE EN 14604

Key Features

- Photoelectric smoke sensing chamber technology
- Smoke chamber fault monitoring
- Test and Hush features in a single button
- Test condition verifies battery and alarm operation
- Hush feature reduces smoke sensitivity if the alarm is not a real fire. The hush time is 9 minutes.
- Loud 85 dB sounder to alert occupants
- Surface-mount device (SMD) circuit board design
- Available with replaceable 1-, 5- or 10-year lithium battery
- Low quiescent current consumption
- 30 day low battery warning signal
- Interconnection function available on some models to connect up to 16 units together
- Choice of different top cover designs
- Easy installation
- Low maintenance

TECHNICAL SPECIFICATIONS

POWER SOURCE	3 V Lithium Battery
ALARM RESPONSE THRESHOLD	0.10 dB/m ~ 0.16 dB/m
VISUAL ALARM INDICATOR	Red LED
LOCAL ALARM MEMORY INDICATOR	Green LED
AUDIBLE ALARM SOUNDER OUTPUT	≥ 85 dB @ 3 m
NUMBER OF INTERCONNECTED UNITS [a]	16
LOW BATTERY SIGNAL	Audible signal each 43 s for 30 days
OPERATING TEMPERATURE	0 °C ~ +45 °C
OPERATING HUMIDITY	10 % ~ 90 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
DIMENSIONS	Ø 100 mm × 45 mm

[a] Available with certain models only. See Order Information below. Compatible with NB740 smoke alarm. Maximum cable length is 150 m.

ORDER CODE	Interconnect	1-year battery	5-year battery	10-year battery	Cover Type
NB741-S1-1		✓			1
NB741-ST1-1	✓	✓			1
NB741-S1-5			✓		1
NB741-ST1-5	✓		✓		1
NB741-S1-10				✓	1
NB741-ST1-10	✓			✓	1

NB838

Smoke Alarm (DC 9V-36V)

NB838 DC smoke alarms are powered with a wide range of DC input from 9V to 36 V for general residential applications, and connection to security control panels. NB838 DC smoke alarms come with both interconnection and N/O or N/C relay output for various applications.

Key Features

- Photoelectric smoke sensing chamber technology
- Hush button to temporarily silence unwanted alarms available on some models
- Test button verifies battery and alarm operation
- Loud 85 dB sounder to alert occupants
- Surface-mount device (SMD) circuit board design
- Low quiescent current consumption
- DC 9 V ~ 36 V external power supply
- 30 day low battery warning signal
- Interconnection function
- N/O-N/C alarm output relay
- Easy installation
- Low maintenance
- Designed to comply with European Standard EN 14604 Smoke alarm devices and Australian Standard AS 3786 Smoke alarms

TECHNICAL SPECIFICATIONS

MAIN POWER SOURCE	DC (9 V-36 V)
STANDBY POWER SOURCE	DC 9 V
ALARM RESPONSE THRESHOLD	0.10 dB/m ~ 0.16 dB/m
VISUAL ALARM INDICATOR	Red LED
AUDIBLE ALARM SOUNDER OUTPUT	≥ 85 dB @ 3 m
ALARM SOUNDER SIGNAL	Temporal 3
HUSH TIME	9 min
NUMBER OF INTERCONNECTED UNITS	40
OPERATING TEMPERATURE	0 °C ~ +45 °C
OPERATING HUMIDITY	10 % ~ 90 % RH, non-condensing
DIMENSIONS	Ø 127 mm × 46 mm

ORDER CODE	Cover 1	Cover 2
NB838-1	✓	
NB838-2		✓

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NB840-S

Smoke Alarm (AC+9V Battery back-up)

NB840-S AC/DC smoke alarms provide smoke detection and alarm functions in a single unit. Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms.

NB840-S AC/DC smoke alarms are mains powered, with battery backup, suitable for general residential applications. The NB840-S range of AC/DC smoke alarms provide home owners and installers with an easy-to-install, premium solution for life safety and property protection applications.

EN 14604

Key Features

- Photoelectricnsmoke sensing chamber technology
- Loud 85 dB sounder to alert occupants
- Integrated Test / Hush button
- Hush button to temporarily silence unwanted alarms
- Test button verifies battery and alarm operation
- Surface-mount device (SMD) circuit board design
- Single DC 9 V user-replaceable battery
- 10-year lithium battery available
- 30 day low battery warning signal
- Safe mains power disconnect when changing battery
- Interconnection function to connect up to 24 units together
- Easy installation
- Low maintenance

TECHNICAL SPECIFICATIONS

PRIMARY POWER SOURCE	AC (220 ~ 240) V, 50Hz
SECONDARY POWER SOURCE	DC 9 V Baterry
ALARM CURRENT	40 mA
ALARM RESPONSE THRESHOLD	0.10 dB/m ~ 0.16 dB/m
VISUAL ALARM INDICATOR	Red LED
AC MAINS INDICATOR	Green LED
AUDIBLE ALARM SOUNDER OUTPUT	≥ 85 dB @ 3 m
NUMBER OF INTERCONNECTED UNITS [a]	24
OPERATING TEMPERATURE	0 °C ~ +45 °C
OPERATING HUMIDITY	10 % ~ 90 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	10 % ~ 98 % RH, non-condensing
DIMENSIONS	Ø 127 mm × 57 mm

[a] Up to 250 m of cabling can be used.

ORDER CODE

NB840-S	With interconnection, smoke alarm

NB840-H

Heat Alarm (AC+9V Battery back-up)

NB840-H AC/DC heat alarms for residential applications provide heat detection and alarm functions in a single unit. Electronic thermistor sensing and microprocessor control delivers reliable performance and low maintenance.

NB840-H AC/DC heat alarms are 220V mains powered, with battery backup, suitable for general residential applications where smoke or gas detectors may cause unwanted alarms (such as cooking areas or parking garages). The NB-840-H range of AC/ DC heat alarms provide home owners and installers with an easy to install, premium solution for property protection applications.

BS 5446-2

Key Features

- Electronic thermistor heat detection with microprocessor control
- Loud 85 dB sounder to alert occupants
- Integrated Test / Hush button
- Hush button to temporarily silence unwanted alarms
- Test button verifies battery and alarm operation
- Surface-mount device (SMD) circuit board design
- Single DC 9 V user-replaceable battery
- 10-year lithium battery available
- 30 day low battery warning signal
- Safe mains power disconnect when changing battery
- Interconnection function to connect up to 24 units together
- Attractive housing design provides protection for the heat sensor
- Easy installation
- Low maintenance

TECHNICAL SPECIFICATIONS

PRIMARY POWER SOURCE	AC (220~240) V, 50 Hz
SECONDARY POWER SOURCE	DC 9 V Battery
ALARM CURRENT	40 mA
ALARM RESPONSE THRESHOLD [a]	54 °C ~ 70 °C
VISUAL ALARM/ AC MAINS INDICATORS	Red LED/ Green LED
AUDIBLE ALARM SOUNDER OUTPUT	≥ 85 dB @ 3 m
NUMBER OF INTERCONNECTED UNITS [b]	24
OPERATING TEMPERATURE [c]	0 °C ~ +45 °C
OPERATING HUMIDITY	10 % ~ 90 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
DIMENSIONS	Ø 127 mm × 57 mm

[a] BS 5446-2 class A2
[b] Up to 250m of cabling can be used.
[c] Can transition to higher temperatures for alarm operation.

ORDER CODE	Carbon-Zinc Battery	Alkaline Battery
NB840-H-C	✓	
NB840-H-A		✓

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NB840-SH

Smoke / Heat Alarm (AC+9V Battery back-up)

EN 14604

BS 5446-2

NB840-SH AC/DC smoke/heat alarms provide smoke/heat detection and alarm functions in a single unit. Advanced electronics in conjunction with a photoelectric smoke sensing chamber and an electronic thermistor provide early detection of fire and high immunity against unwanted alarms. The heat sensor provides sensitive rate-of-rise operation or fixed-temperature operation when the response threshold value is exceeded. NB840-SH AC/DC smoke/heat alarms are mains powered, with battery backup, suitable for general residential applications. The **NB840-SH** range of AC/DC smoke/heat alarms provide home owners and installers with an easy-to-install, premium solution for life safety and property protection applications.

Key Features

- Photoelectric smoke sensing chamber technology
- Electronic thermistor with microprocessor control
- Loud 85 dB sounder to alert occupants
- Integrated Test / Hush button
- Hush button to temporarily silence unwanted alarms
- Test button verifies battery and alarm operation
- Surface-mount device (SMD) circuit board design
- Single DC 9 V user-replaceable battery
- 10-year lithium battery available
- 30 day low battery warning signal
- Safe mains power disconnect when changing battery
- Interconnection function to connect up to 24 units together
- Easy installation
- Low maintenance

TECHNICAL SPECIFICATIONS

PRIMARY POWER SOURCE	AC (220 ~ 240) V, 50Hz
SECONDARY POWER SOURCE	DC 9 V Batery
ALARM CURRENT	40 mA
ALARM RESPONSE THRESHOLD (smoke)	0.10 dB/m ~ 0.16 dB/m
ALARM RESPONSE THRESHOLD(HEAT) [a]	(54 ~ 70) °C
VISUAL ALARM INDICATOR	Red LED
AC MAINS INDICATOR	Green LED
AUDIBLE ALARM SOUNDER OUTPUT	≥ 85 dB @ 3 m
NUMBER OF INTERCONNECTED UNITS [a]	24
OPERATING TEMPERATURE	0 °C ~ +45 °C
OPERATING HUMIDITY	10 % ~ 90 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
DIMENSIONS	Ø 127 mm × 57 mm

[a] Up to 250 m of cabling can be used.

ORDER CODE	Carbon-Zinc Battery	Alkaline Battery
NB840-SH-C	✓	
NB840-SH-A		✓

NB299

Low Profile DC smoke/heat alarm

NB299 DC smoke/heat alarms provide battery powered smoke/heat detection and alarm functions within a single unit.
Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms.
Electronic thermistor sensing and microprocessor control delivers reliable performance and low maintenance. suitable for general residential applications where smoke or gas detectors may cause unwanted alarms (such as cooking areas or parking garages).
NB299 DC smoke/heat alarms have a big Test/Silence button which is easy for weekly test.
The NB299 range of DC smoke/heat alarms provide home owners and installers with an easy-to-install, economical solution for life safety and property protection applications.

EN 14604
BS 5446-2

Key Features

- Photoelectric smoke sensing chamber technology
- Smoke chamber fault monitoring
- Automatic re-calibration of sensitivity in case of contamination optional
- Local alarm memory feature to help location previous alarm location - optional
- Electronic thermistor sensing
- Slim enclosure design
- Test and Hush features in a single Big button
- Test condition verifies battery and alarm operation
- Hush feature reduces smoke sensitivity if the alarm is not a real fire. The hush time is 10 minutes.
- Loud 85 dB sounder to alert occupants
- Surface-mount device (SMD) circuit board design
- Available with replaceable 5-year Alkaline battery, or 10 year Li-ion non-replaceable battery
- Low quiescent current consumption
- 30 day low battery warning signal
- Easy installation
- Low maintenance
- Adhesive installation kit optional

Specifications

Power source	AAA Alkaline battery for 5 year Or 3 V li-ion battery for 10 yea
Alarm response threshold	(0.10 ~ 0.16) dB/m
Visual alarm indicator	Red LED
Audible alarm sounder output	≥ 85 dB @ 3 m
Low battery signal	Audible signal each 48s for 30 days
Operating temperature	(0 ~ +45) °C
Operating humidity	(10 ~ 90) % RH, non- condensing
Storage temperature	(-25 ~ +80) °C
Storage humidity	(0 ~ 98) % RH, non-condensing
Dimensions	ø 115 mm × 24 mm

Approvals

NB299 smoke/heat detector are designed to comply with below approval:

	EN14604	Q-Label (V2.0)	BS5446-2
NB299-S-5	✓		
NB299-S-10			
NB299-S-10C	✓	✓	
NB299-H-10			✓

Ordering Information

	Smoke	Heat	5 year battery	10 year battery
NB299-S-5	✓		✓	
NB299-S-10	✓			✓
NB299-S-10C	✓			✓
NB299-H-10		✓		✓

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NB301

AC/DC smoke and CO combo alarm

UL 268
UL 2034
UL 1971

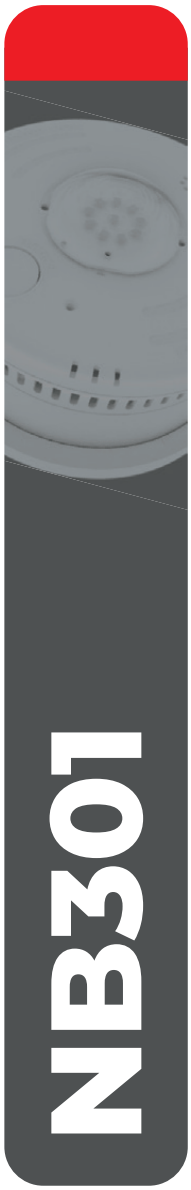
NB301 AC/DC smoke and CO combo alarm provide smoke detection, CO leakage detection and alarm functions in a single unit.
Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms.
Electrochemical gas sensor and sophisticated algorithm provides early detection of dangerous levels of carbon monoxide gas.
The product are mains powered, with 10year non- replaceable backup battery, suitable for general residential applications.
The product provides home-owners and installers with an easy-to-install, premium solution for life safety and property protection applications.

Key Features

- Photoelectric smoke sensing chamber technology
- Advanced algorithms provide advanced detection discrimination
- Stable gas sensing chamber, with automatic sensor adjustment
- Highly bright 177cd strobe module available
- Loud 85 dB sounder to alert occupants
- Optional 520Hz speaker to wake people in sleep
- Integrated Test / Hush button
- Hush button to temporarily silence unwanted alarms
- Test button verifies battery and alarm operation
- Surface-mount device (SMD) circuit board design
- 10-year non-replaceable battery
- Interconnection function to connect up to 15 units together, hard-wire terminal supplied for all models, wireless module optional
- 10-year end-of-life factory-programmable timer alerts owner to replace the unit
- Easy installation
- Low maintenance

Approvals

NB301 AC/DC smoke and CO alarms are in the process to obtain UL268, UL2034 and UL1971 approvals.



NB301

AC/DC smoke and CO combo alarm

Specifications

Primary power source	AC110~220V or AC110V
Secondary power source	10 year non-replaceable lithium battery
Max. Alarm current	100 mA
Average standby current	18 μA
Alarm response threshold- Smoke	1.0 ~ 4.0 %/ft. Obs
Alarm response threshold- CO	60 μL/L for 60 min ~ 240 min 150 μL/L for 10 min ~ 50 min 400 μL/L for 4 min ~ 15 min
Visual alarm indicator	Red LED
AC mains indicator	Green LED
Audible alarm sounder output	≥ 85 dB @ 3 m
520 Hz specker sound output	≥ 75 dB @ 3 m for 520Hz models, the buzzer and 520Hz speaker sounds consecutively.
Number of interconnected units [a]	15
Operating temperature	(+4.4 ~ 37.8) °C
Operating humidity	(10 ~ 90) % RH, non- condensing
Storage temperature	(-25 ~ 80) °C
AC mains indicator	(0 ~ 98) % RH, non- condensing
Dimensions	ø 136 mm × 57 mm (without strobe) ø 136 mm × 72 mm (with strobe)

[a] Up to 500 foot of cabling can be used

Ordering Information

Model	Smoke	Smoke + CO	AC 110V	AC110 - 220V	BATTERY (Non-replaceable) 10 Year	Wireless interconnection (sub-1G)	Strobe	520 Hz speaker
NB301-SCRL		✓	✓		✓	✓	✓	
NB301-SRL	✓		✓		✓	✓	✓	
NB301-SCL		✓	✓		✓		✓	
NB301-SL	✓		✓		✓		✓	
NB301-SCR		✓		✓	✓	✓		
NB301-SR	✓			✓	✓	✓		
NB301-SC		✓		✓	✓			
NB301-S	✓			✓	✓			
NB301-SVCR		✓		✓	✓	✓		✓
NB301-SVR				✓	✓	✓		✓
NB301-SVC		✓		✓	✓			✓
NB301-SV				✓	✓			✓

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NB752

Economic DC smoke alarm

NB752 DC smoke alarms provide battery powered smoke detection and alarm functions within a single unit.
Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms.
NB752 DC smoke alarms do not require a mains supply and are suitable for general residential applications.
The NB752 range of DC smoke alarms provide home owners and installers with an easy-to-install, economical solution for life safety and property protection applications.

VdS 3131

EN 14604

Key Features

The NB752 DC smoke alarms are available with features to suit many applications.

- Photoelectric smoke sensing chamber technology
- Smoke chamber fault monitoring
- Test and Hush features in a single button
- Test condition verifies battery and alarm operation
- Hush feature reduces smoke sensitivity if the alarm is not a real fire. The hush time is 9 minutes
- Alarm memory allows easy identification of a unit that has previously been in the Alarm condition
- Loud 85 dB sounder to alert occupants
- Surface-mount device (SMD) circuit board design
- Sealed DC 3 V lithium battery, with 10 year life
- When the unit is removed from the mounting base, power is automatically internally disconnected
- 30 day low battery warning signal
- Easy installation
- Low maintenance
- Low quiescent current consumption
- Adhesive magnetic installation kit optional

NB752

Specifications

Power source	3 V lithium battery 1500 mAh
Alarm response threshold	0.10 dB/m ~ 0.16 dB/m
Visual alarm indicator	Red LED
Local Alarm Memory indicator	Green LED
Audible alarm sounder output	≥ 85 dB @ 3 m
Low battery signal	Audible signal each 43 s for 30 days
Operating temperature	0 °C ~ +45 °C
Operating humidity	10 % ~ 90 % RH, non-condensing
Storage temperature	-25 °C ~ +80 °C
Storage humidity	0 % ~ 98 % RH, non- condensing
Dimensions	ø 102 mm × 36 mm

Ordering Information

	Interconnect	Non-replaceable 10-year battery
NB752	---	✓

NB753

Economic DC smoke alarm

NB753 DC smoke alarms provide battery powered smoke detection and alarm functions within a single unit.
Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms.
NB753 DC smoke alarms do not require a mains supply and are suitable for general residential applications.
The NB753 range of DC smoke alarms provide home owners and installers with an easy-to-install, economical solution for life safety and property protection applications.

EN 14604

Key Features

- Photoelectric smoke sensing chamber technology
- Smoke chamber fault monitoring
- Test and Hush features in a single button
- Test condition verifies battery and alarm operation
- Hush feature reduces smoke sensitivity if the alarm is not a real fire. The hush time is 8 minutes.
- Loud 85 dB sounder to alert occupants
- Surface-mount device (SMD) circuit board design
- Available with replaceable 10-year lithium-ion battery
- Low quiescent current consumption
- 30 day low battery warning signal
- Easy installation
- Low maintenance
- Adhesive magnetic installation kit optional

Specifications

Power source	3 V lithium-ion battery
Alarm response threshold	(0.10 ~ 0.16) dB/m
Visual alarm indicator	Red LED
Audible alarm sounder output	≥ 85 dB @ 3 m
Low battery signal	Audible signal each 43 s for 30 days
Operating temperature	(0 ~ +45) °C
Operating humidity	(10 ~ 90) % RH, non- condensing
Storage temperature	(-25 ~ +80) °C
Storage humidity	(0 ~ 98) % RH, non-condensing
Dimensions	ø 102 mm × 36 mm

Ordering Information

	Interconnect	10-year battery
NB753	---	✓

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NB730

DC Heat Alarm

NB730 DC heat alarms provide, with fixed temperature and rate - of - rise heat detection, together with alarm functions with in a single unit.

Electronic thermistor sensing and microprocessor control delivers reliable performance and low maintenance. NB730 DC heat alarms are suitable for residential applications where smoke or gas detectors may cause unwanted alarms (such as cooking areas or parking garages) 1.
The NB730 range of DC heat alarms provide home owners and installers with an easy - to - install, premium solution for property protection applications.

Key Features

- Fixed temperature and rate-of-rise operation using electronic thermistors with microprocessor control
- Integrated indicator provides visual indication of an alarm condition
- Loud 85 dB sounder to alert occupants
- Test button verifies battery and alarm operation
- Surface-mount device (SMD) circuit board design
- Single DC 9 V user-replaceable battery provides up to 30 months operation under normal conditions
- 30 day low battery warning signal
- Safe mains power disconnect when changing battery
- Interconnection function available on some models to connect up to 11 units together
- Optional wireless base available for interconnection function
- Attractive housing design provides protection for the heat sensor
- Easy installation
- Low maintenance

TECHNICAL SPECIFICATIONS

AC POWER SOURCE	100 V - 200 V, 50/60 Hz
DC POWER SOURCE	DC 9 V
ALARM RESPONSE THRESHOLD (RATE OF RISE)	> 6.7 °C / min
ALARM RESPONSE THRESHOLD(FIXED TEMPERATURE	57 °C
VISUAL ALARM INDICATOR	Red LED
AUDIBLE ALARM SOUNDER OUTPUT	
NUMBER OF INTERCONNECTED UNITS	11
OPERATING TEMPERATURE	-0 °C ~ +49 °C [b]
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
DIMENSIONS	Ø 100 mm × 45 mm

ORDER CODE	AC Power	Interconnect	Alkaline Battery	Lithium Battery
NB730			✓	
NB730-I		✓	✓	

NB138

Water Alarm (Flooding Alarm)

The NB138 water alarm is a stand-alone water leakage detector with an alarm sounder, powered from an internal battery.

Advanced electronics provides rapid detection of water in at-risk locations, such as basement area, sumps, under sinks, around washing machines, in bathrooms, etc. A dry-contact relay output is available for connection to other equipment, such as a security system.

Key Features

- Operates in water depths exceeding 5 mm
- Attractive housing design
- Loud 85 dB internal alarm sounder lasts for up to 72 hours
- Operates from a replaceable DC 9 V battery
- Low power consumption
- Dry-contact relay output ideal for connection to other equipment, such as a security system
- Shock resistant from up to 1.8 m fall onto concrete
- Splash proof (not water proof)
- Easy installation
- No programming required

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC 9 V Battery
ALARM RESPONSE THRESHOLD	10 mm water depth
SECONDARY POWER SOURCE	DC 9 V Battery
SOUNDER OUTPUT	≥ 85 dB @ 3 m
OUTPUT RELAY	SPDT. N/O or N/C. 1.0 A @ DC 30 V / 0.5 A @ AC 125 V
OPERATING TEMPERATURE	0 °C ~ +55 °C
OPERATING HUMIDITY	0 % ~ 80 % RH, non-condensing
DIMENSIONS (h x w x d)	(100 x 62 x 35)mm
INGRESS PROTECTION RATING	IP-42

ORDER CODE

NB138

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NB580 Wireless

Wireless DC Smoke Alarm

The NB580 Interconnectable wireless DC smoke alarm for residential applications, provides battery powered smoke detection and alarm functions within a single unit. Advanced electronics, in conjunction with a photoelectric smoke sensing chamber, provide early detection of smoke and high immunity against unwanted alarms. NB580 wireless DC smoke alarms are battery powered, with wireless signaling to other interconnected detectors. NB580 wireless DC smoke alarms provide home owners and installers with a flexible and easy-to-install premium solution for general residential life safety and property protection applications.

CE

EN 14604

Key Features

- Photoelectric smoke sensing chamber technology
- Dual function action button to temporarily silence unwanted alarms (Hush) and to verify battery and alarm operation (Test)
- Loud 85 dB sounder to alert occupants
- Surface-mount device (SMD) circuit board design
- Single DC 9 V user-replaceable lithium or alkaline battery included
- 30 day low battery warning signal
- Battery missing indicator prevents the unit from being installed without the battery fitted
- T3 audible alarm signal (0.5 s on, 0.5 s off for 3 cycles, followed by 1.5 s off)
- Sophisticated antenna provides high output power, with low power consumption for interconnection of smoke alarms
- Interconnection function connects up to 32 units together
- Easy installation
- Low maintenance

TECHNICAL SPECIFICATIONS

POWER SOURCE	DC 9 V
ALARM RESPONSE THRESHOLD	0.10 dB/m ~ 0.16 dB/m
RF OPERATING FREQUENCY	868.082 MHz
RF POWER	+10 dBm
VISUAL ALARM INDICATOR	Red LED
AUDIBLE ALARM SOUNDER OUTPUT	≥ 85 dB @ 3 m Temporal 3 signal pattern
CURRENT	Standby 32 uA - Alarm 40 mA
NUMBER OF INTERCONNECTED UNITS [a]	32
BATTERY LIFE	2 years (Alkaline), 10 years (Lithium)
OPERATING TEMPERATURE	-10 °C ~ +40 °C
OPERATING HUMIDITY	10% ~ 90% RH, non-condensing, non-icing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0% ~ 98% RH, non-condensing, non-icing
DIMENSIONS	Ø 102 mm × 35 mm

[a] Typical range is 30 m within a dwelling, and 100 m in free space.

ORDER CODE

NB580	Alkaline Battery
NB580-S	Lithium Battery

NB590 Wireless

Wireless DC Smoke Alarm

The NB590 Interconnectable wireless DC smoke alarm for residential applications, provides battery powered smoke detection and alarm functions within a single unit. Advanced electronics, in conjunction with a photoelectric smoke sensing chamber, provide early detection of smoke and high immunity against unwanted alarms. NB590 wireless DC smoke alarms are battery powered, with wireless signaling to other interconnected devices. NB590 wireless DC smoke alarms provide home owners and installers with a flexible and easy-to-install premium solution for general residential life safety and property protection applications.

CE

EN 14604

VdS

3515

3131

Key Features

- Photoelectric smoke sensing chamber technology
- Dual function action button to temporarily silence unwanted alarms (Hush), and to verify battery and alarm operation (Test)
- Separate coding button
- Interconnection silence feature provided for easy identification of alarm location
- Loud 85 dB sounder to alert occupants
- Local alarm memory allows easy identification of a unit that has previously been in the Alarm condition
- Drift compensation for long-term use
- Temperature compensation, wide operating temperature range
- Smoke chamber fault monitoring
- Surface-mount device (SMD) circuit board design
- Sealed DC 3 V lithium battery, with a 10 year life expectancy
- 30 day low battery warning signal
- Interconnection function connects up to 12 units together
- Easy installation
- Low maintenance

TECHNICAL SPECIFICATIONS

POWER SOURCE	DC 3 V Lithium Battery 2300 mAh
ALARM RESPONSE THRESHOLD	0.10 dB/m ~ 0.16 dB/m
RF OPERATING FREQUENCY	868 MHz
RF POWER	+10 dBm
VISUAL ALARM INDICATOR	Red LED
AUDIBLE ALARM SOUNDER OUTPUT	≥ 85 dB @ 3 m Temporal 3 signal pattern
CURRENT (MAX)	120 mA
NUMBER OF INTERCONNECTED UNITS [a]	12
OPERATING TEMPERATURE	-10 °C ~ +60 °C
OPERATING HUMIDITY	10 % ~ 90 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
DIMENSIONS	Ø 102 mm × 36 mm

[a] Typical range is 30 m within a dwelling, and 100 m in free space.

ORDER CODE

NB590	DC 3V smoke alarm, 10 year, wireless interconnection
THW	Wireless remote controller
NB349	Wireless sounder strobe

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THW

Wireless Remote Controller

THW remote controller provides remote control operation of NB580/NB590 Wireless smoke alarm and also the NB349 wireless sounder strobe. It can be programmed to operate with the above devices to remotely trigger test, to silence the interconnection alarm to locate the fire origin, and to silence the original alarm (only for NB590).

THW wireless remote controller is battery powered, with wireless signalling to other interconnected devices. The **THW** wireless remote control simplifies detector testing and allows silencing a ceiling mounted detector without needing to access it.

Key Features

- Test and coding dual function button (the small one)
- Interconnection silence and forced silence dual function button (the big one)
- Surface-mount device (SMD) circuit board design
- Replaceable 3V lithium battery, with 1 year operational life expectancy
- Compatible with NB580/NB590 smoke alarms
- Compatible with NB349 sounder strobe
- Easy installation with mounting bracket
- 30 day Low battery alert
- Low maintenance
- Typical 10 m wireless communication range within dwelling

THW

TECHNICAL SPECIFICATIONS

POWER SOURCE	CR2032 Lithium Battery
RF operating frequency	868.082 MHz
RF range	10m typical
Standby Current (max)	80 mA
Operating temperature	-10°C ~ +50 °C
Operating humidity	10 %~90 % RH,non-condensing,non-icing
Storage temperature	-25 °C ~ +50 °C
Storage humidity	0 %~98 % RH, non-condensing,non-icing
Dimensions	81 mm × 43 mm × 17 mm

ORDER CODE

THW	DC 3V Wireless remote controller

NB349

Wireless Interconnection Sounder strobe

NB349 wireless interconnectable sounder strobe can be used with NB580/NB590 wireless smoke alarm or NB839 hard-wired interconnection smoke alarms to alert people of fire risk detected by interconnected smoke alarms. NB349 do not require a mains supply and are suitable for general residential applications.

Key Features

- Interconnectable with NB590 wireless smoke alarm
- Interconnectable with remote controller for test and silence
- DC 1.5 V AA battery * 8
- Loud sounder output of 85 dB at 3 m
- Long-life strobe light
- Easy installation
- Low maintenance

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC 1.5 V AA battery * 8
STANDBY CURRENT	≤15uA
ALARM CURRENT	120 mA
SOUNDER OUTPUT	85 dB @ 3 m
STROBE LIGHT FLASH RATE	≤ 2 s
STROBE LIGHT OUTPUT POWER	2.5 W
TERMINAL WIRING	0.4 mm2 ~ 2.5 mm2
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
DIMENSIONS (H × W × D)	(120 × 80 ×42) mm
INGRESS PROTECTION RATING	IP-23

ORDER CODE	Sounder	Strobe Light	Wireless
NB349-H	✓	✓	
NB349-W	✓	✓	✓

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NB707-A

Tobacco Smoke Alarm

NB707A tobacco smoke alarms provide battery powered smoke detection and alarm functions within a single unit. The NB707A range of tobacco smoke detectors have been specially designed to respond to the characteristics of tobacco smoke. Advanced electronics in conjunction with a photoelectric smoke sensing chamber, and three user- selectable sensitivity settings provide early detection and immunity against unwanted alarms.

NB707A tobacco smoke alarms do not require a mains supply and are suitable for use in dormitories, toilets, transport applications and similar. The NB707A range of tobacco smoke alarms provide building owners with an economical tobacco smoke detector, and assist in monitor smoking within a building to comply with contemporary non-smoking regulations and policies.

Key Features

- Photoelectric smoke sensing chamber technology
- Three user-selectable sensitivity settings
- Two user-selectable audible alarm signals
- Test button verifies battery and alarm operation
- 70 dB sounder to alert occupants
- Single DC 9 V user-replaceable battery provides up to 24 months operation under normal conditions
- 30 day low battery warning signal
- Interconnection function available on some models to connect up to 38 units together
- N/C or N/O alarm relay output available
- Remote installation LED indicator output available

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC 9 V Battery
ALARM RESPONSE THRESHOLD [a]	0.02 dB/m ~ 0.04 dB/m 0.04 dB/m ~ 0.06 dB/m 0.06 dB/m ~ 0.08 dB/m
ALARM INDICATOR	Slow mode: LED flash and beep every 3 s. Fast mode: LED flash and beep every 1 s.
AUDIBLE ALARM SOUNDER OUTPUT	≥ 70 dB @ 3 m
NUMBER OF INTERCONNECTED UNITS	38
ALARM RELAY [b]	SPST. N/O or N/C. 1.0 A @ DC 30 V / 0.5 A @ AC 125 V
OPERATING TEMPERATURE [c]	-4 °C ~ +38 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
STORAGE HUMIDITY	-25 °C ~ +80 °C
DIMENSIONS	Ø 105 mm × 50 mm

[a] User Selectable
[b] For NB707A-C-RL model only.

ORDER CODE	Remote LED Output	Alarm Relay Output
NB707A-C-OL		
NB707A-C-RM	✓	
NB707A-C-RL		✓

NB707-V

Tobacco Smoke Alarm (voice)

NB707V tobacco smoke alarms provide smoke detection and voice alarm functions within a single unit. The NB707V range of tobacco smoke detectors have been specially designed to respond to the characteristics of tobacco smoke. Advanced electronics in conjunction with a photoelectric smoke sensing chamber, and three user- selectable sensitivity settings provide early detection and immunity against unwanted alarms. NB707V tobacco smoke alarms do not require a mains supply and are suitable for use in dormitories, public areas, toilets, transport applications and similar. The NB707V range of tobacco smoke alarms provide building owners with an economical tobacco smoke detector and assist in monitoring tobacco smoking within a building to comply with contemporary non-smoking regulations and policies.

Key Features

- Three user-selectable sensitivity settings. Easy installation.
- Voice alarm (can be programmed with different languages)
- Test button verifies battery and alarm operation
- Surface-mount device (SMD) circuit board design
- Single DC 9 V user-replaceable battery. 30 day low battery visual warning signal
- High-performance MCU. Advanced algorithm
- Voice warning message activated 10s after alarm is triggered, repeated 4 times
- Automatic reset in 6 min after activation. Manual reset by pressing Test button for 4s
- N/C or N/O alarm relay output available. Remote LED indicator output available

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC 9 V Battery
AUDIBLE ALARM SOUNDER OUTPUT	LED flash once every 45 s
ALARM RESPONSE THRESHOLD [a]	0.02 dB/m ~ 0.04 dB/m 0.04 dB/m ~ 0.06 dB/m 0.06 dB/m ~ 0.08 dB/m
ALARM INDICATOR	LED steady on, and voice alarm activated in 10 s, voice alarm repeated 4 times
AUDIBLE ALARM SOUNDER OUTPUT	≥ 45 dB @ 3 m
VOICE WARNING MESSAGE	Smoking is prohibited in this area. Please extinguish cigarettes and only smoke in a designated location.
ALARM RELAY [b]	SPST. N/O or N/C. 1.0 A @ DC 30 V / 0.5 A @ AC 125 V
FAULT INDICATION	LED flash twice every 45 s
OPERATING TEMPERATURE	-5 °C ~ +40 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
DIMENSIONS	Ø 105 mm × 50 mm

[a] User Selectable
[b] For NB707V-RL model only.

ORDER CODE	Remote LED Output	Alarm Relay Output
NB707V		
NB707V-RM	✓	
NB707V-RL		✓

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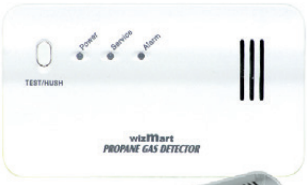
NB920

Gas Alarm (AC/DC Natural Gas, Propane Gas)



NB920 AC/DC gas alarms are mains powered inflammable gas detectors that can be powered directly from the mains supply or from a DC 12/24 V supply (such as a security system). Advanced electronics in conjunction with a semiconductor gas sensor provide early detection of natural gas or propane gas and high immunity against unwanted alarms.

Key Features

- Advanced algorithms provide advanced detection discrimination
- Natural gas or propane gas detection models available
- Attractive housing design
- Japan-made highly reliable stable gas sensor. No adjustment or replacement required
- High immunity against unwanted alarms
- Loud 85 dB internal alarm sounder
- Dual function action button to temporarily silence unwanted alarms (Hush), and to verify alarm operation (Test)
- Separate indicators for Power, Alarm and Service
- AC mains operating models available
- DC 12/24 V models available
- Low power consumption
- N/C or N/O alarm relay output models available
- Interconnection function available on some models to connect up to 11 units together
- Easy installation. No programming required

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE OPTIONS	DC (12 ~ 28) V AC110V / AC220V, 50/60 Hz
POWER CONSUMPTION	4W
SENSING CELL	Semiconductor
ALARM RESPONSE THRESHOLD	(0.10 ±0.03) LEL
SOUNDER OUTPUT	≥ 85 dB @ 3 m
ALARM RELAY	SPST. N/O or N/C. 1.0 A @ DC 30 V / 0.5 A @ AC 125 V
NUMBER OF INTERCONNECTED UNITS	11
POWER AVAILABLE INDICATOR	Green
ALARM VISUAL INDICATOR	Red
SERVICE REQUIRED VISUAL INDICATOR	Yellow
OPERATING TEMPERATURE	0 °C ~ +40 °C
OPERATING HUMIDITY	0% - 95 % RH, non-condensing
DIMENSIONS (h x w x d)	(80 x 156 x 51)mm

NB920

Gas Alarm (AC/DC Natural Gas, Propane Gas)

ORDER CODE	Propane Gas Detection	Natural Gas Detection	DC 12/24 V Operating Voltage	Mains Operating Voltage	Alarm Relay Output	Interconnect
NB920DL	✓		✓			
NB920DLR	✓		✓		✓	
NB920DLI	✓		✓			✓
NB920DN		✓	✓			
NB920DNR		✓	✓		✓	
NB920DNI		✓	✓			✓
NB920AL	✓			✓		
NB920ALR	✓			✓	✓	
NB920ALI	✓			✓		✓
NB920AN		✓		✓		
NB920ANR		✓		✓	✓	
NB920ANI		✓		✓		✓

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NB931

CO Alarm

NB931 CO alarms are UL approved stand-alone CO detectors powered from 5-year long-life internal batteries.

UL 2034

Key Features

- Advanced algorithms provide advanced detection discrimination
- Attractive housing design
- Japan-made highly reliable stable CO sensor, with automatic adjustment
- High immunity against unwanted alarms
- Loud unit 85 dB internal alarm sounder
- Dual function action button to temporarily silence unwanted alarms (Hush), and to verify alarm operation (Test)
- Separate indicators for Power, Alarm and Service
- Service sounder
- Low power consumption
- Low battery audible indication
- Easy installation. No programming required
- 5-year "end-of-life" timer alerts owner to replace the battery

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC 4.5 V (3 x AA Batteries)
SENSING CELL	Electro-chemical
ALARM RESPONSE THRESHOLD	70 ppm in (60 ~ 240) min 150 ppm in (10 ~ 50) min 400 ppm in (4 ~ 15) min
SOUNDER OUTPUT	≥ 85 dB @ 3 m
POWER AVAILABLE INDICATOR	Green
ALARM VISUAL INDICATOR	Red
SERVICE REQUIRED VISUAL INDICATOR	Yellow
OPERATING TEMPERATURE	+4,4 °C ~ +37,8 °C
OPERATING HUMIDITY	15 % ~ 90 % RH, non-condensing
DIMENSIONS (h x w x d)	(64 x 112 x 44) mm

ORDER CODE

NB931CO

NB932AB

CO Alarm (AC + 9V Battery back-up)

NB932AB CO alarms are UL approved stand-alone CO detectors powered from the mains supply with a backup battery.

Key Features

- Advanced algorithms provide advanced detection discrimination
- Attractive housing design
- Japan-made highly reliable CO sensor, with automatic adjustment
- High immunity against unwanted alarms
- Loud 85 dB internal alarm sounder
- Dual function action button to temporarily silence unwanted alarms (Hush), and to verify alarm operation (Test)
- Separate indicators for Power, Alarm and Service
- Service sounder
- Low power consumption
- Mains powered with battery backup for continuous operation
- Safe mains power disconnect when changing battery
- Single DC 9 V user-replaceable backup battery included
- Low battery audible indication
- Easy installation. No programming required
- 5-year end-of-life timer alerts owner to replace the unit

UL 2034

TECHNICAL SPECIFICATIONS

PRIMARY POWER SOURCE	AC 120 V, 60 Hz
PRIMARY POWER CURRENT (MAX)	45 mA
SECONDARY POWER SOURCE	DC 9 V Battery
SENSING CELL	Electro-chemical
ALARM RESPONSE THRESHOLD [a]	70 ppm in (60 ~ 240) min 150 ppm in (10 ~ 50) min 400 ppm in (4 ~ 15) min
SOUNDER OUTPUT	≥ 85 dB @ 3 m
POWER AVAILABLE INDICATOR	Green
ALARM VISUAL INDICATOR	Red
SERVICE REQUIRED VISUAL INDICATOR	Yellow
OPERATING TEMPERATURE	+4.4 °C ~ +37.8 °C
OPERATING HUMIDITY	15 % ~ 90 % RH, non-condensing
DIMENSIONS (h x w x d)	(64 x 112 x 44)mm

ORDER CODE

NB932AB

wizMart

NB757, 767, 777

Battery powered residential CO &/or Gas alarm

NB757, NB767, NB777 gas alarms are powered by batteries and alert building occupants to hazardous levels of carbon monoxide gas / natural gas.
Advanced electronics in conjunction with an electrochemical carbon monoxide sensor / semi- conductor methane sensor provides early detection of dangerous levels of gas, and high immunity against unwanted alarms.
The NB757, NB767, NB777 gas detectors provide home owners and installers with an easy-to-install, premium solution for life safety applications.

UL 1484
UL 2034

Key Features

The NB757CO alarm, NB767 natural gas alarm, NB777 CO and Natural gas alarm include a wide range of standard features to suit many applications.

- Advanced algorithms provide advanced detection discrimination
- 10-year battery life for normal operation
- 10-year sensor life
- Attractive housing design
- Stable gas sensing chamber, with automatic sensor adjustment
- High immunity against unwanted alarms
- LCD for real-time CO concentration indication (NB757)
- Quick Go/No-go test feature for CO
- Loud 85 dB internal alarm sounder
- Dual function action button to temporarily silence unwanted alarms (Hush), and to verify alarm operation (Test)
- Surface-mount device (SMD) circuit board design
- Visual and audible indicator for Normal, Alarm, Trouble and End-of-life
- Low power consumption
- Easy installation.
- Low maintenance
- 10-year end-of-life factory-programmable timer alerts owner to replace the unit

Approvals

NB757, NB767, NB777 gas detectors are designed to comply with UL1484 and UL2034.

Specifications

	NB757, NB767, NB777
Power source	3V li-ion batteries *2
Sensing cell	Electro-chemical for CO Semi-conductor for Natural gas
Sounder output	≥ 85 dB @ 3 m
Operating temperature	0 °C ~ +40 °C
Operating humidity	15 % ~ 90 % RH, non- condensing
Storage temperature	-25 °C ~ +80 °C
Storage humidity	0 % ~ 98 % RH, non-condensing
Ingress protection rating	IP-23

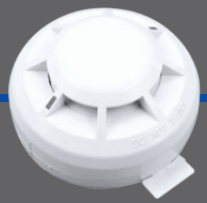
Ordering Information

	Carbon Monoxide	Natural Gas	LCD display
NB757	✓		✓
NB767		✓	
NB777	✓	✓	

Conventional System

Wizmart has a comprehensive range of conventional detectors and other devices suitable for a large range of fire detection control and indicating equipment.

The Wizmart range of devices provides fire detection and alarm system designers with an economical solution for life safety and property protection applications.



NB380-S (UL) P. 56
Smoke Detector

NB758-S P. 68
Smoke Detector

NB326-S P. 40
Smoke Detector

Smoke Detectors

NB380-H (UL) P. 58
Heat Detector

NB758-H P. 69
Heat Detector

NB326-H P. 41
Heat Detector

Heat Detectors

P. 60
NB380-SH (UL)
Smoke / Heat Detector

NB758-SH P. 70
Smoke / Heat Detector

NB326-SH P. 42
Smoke / Heat Detector

Multi-Sensor Detectors

NB332N P. 76
UV Flame Detector

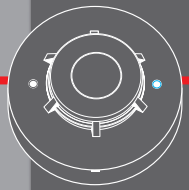
240CO-E P. 75
CO Alarm

NB983 P. 71
Gas Detector
(CO, Natural Gas, Propane Gas)

UNO-C P. 126
Conventional Fire Detection Panel

P. 121
RE-2554 / 2558
Control Panel

32 units per zone



NB106 P. 114
Remote Indicator

Remote Indicator

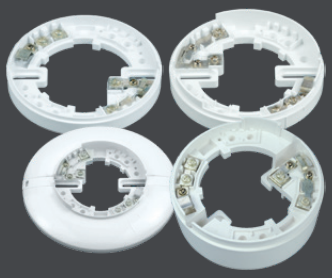
NB570 P. 79
Audio/Visual Alarm Device

Alarm Device

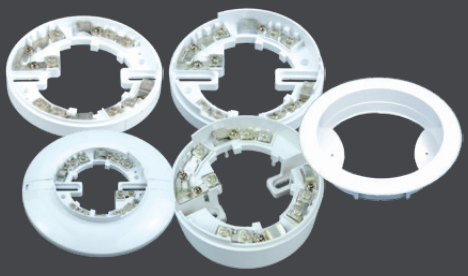
NB525 P. 78
Manual Call Point

Manual Call Points

Detector Bases



4-terminal P. 119
Passive Bases



8-terminal P. 119
Passive Bases

Recessed Base P. 85
Mounting Ring

NB103 P. 85
Sounder Base

NB760 P. 120
Isolator Base

NB606 P. 77
Tobacco Smoke Detector

NB382-S (UL) P. 62
Smoke Detector

NB380F-S P. 50
Smoke Detector

NB380-S P. 44
Smoke Detector

NB382-H (UL) P. 64
Heat Detector

NB380F-H P. 52
Heat Detector

NB380-H P. 46
Heat Detector

P. 66
NB382-SH (UL)
Smoke / Heat Detector

NB380F-SH P. 54
Smoke / Heat Detector

NB380-SH P. 48
Smoke / Heat Detector

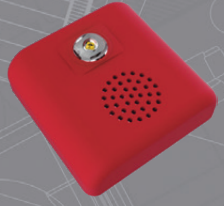
NB283 P. 43
10-60 VDC Conventional (non-addressable) smoke detector

NB701 P. 72
AC / DC Gas Alarm

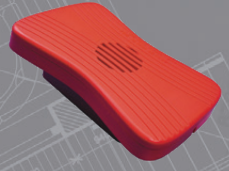
NB702 CO P. 74
Conventional CO Alarm

ADA100 P. 86
Disable Persons Response Alarm

SFM P. 82
Synchronized Function Module



P.80
Notification Appliances
Conventional Multi-Candela



NB345 P. 84
Conventional Mini Horn

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NB326-S

Smoke Detector

EN-54

EN54-7

NB326 conventional photoelectric smoke detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors. Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms.

Key Features

- Advanced algorithms provide advanced detection discrimination
- Dual LEDs for 360° visibility. Easy installation No programming required
- Sleek low-profile housing design
- Stable photoelectric smoke sensing chamber. No adjustment or replacement required
- High immunity against unwanted alarms. Magnet-initiated alarm test function
- 2-Wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-Wire models include a N/C or N/O alarm relay output
- 4-Wire models available with auto-reset function
- 4-Wire models available with an internal sounder
- Connects to zone monitor for use with addressable control and indicating equipment

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (12 / 24) V
START-UP CURRENT	≤ 120 μA
STANDBY CURRENT	≤ 100 μA
ALARM CURRENT (MAX)	35 mA ~ 70 mA
RESET VOLTAGE	≤ 1 V
RESET TIME	≤ 1 s
ALARM RESPONSE THRESHOLD	0.10 dB/m ~ 0.14 dB/m
SOUNDER OUTPUT	≥ 70 dB @ 0.3 m
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
ALARM INDICATOR	Two continuous emitting red LEDs
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 37 mm
INGRESS PROTECTION RATING	IP-42

ORDER CODE	2-Wire	4-Wire	Normal Operating Voltage	Remote LED Output	Alarm Relay Output	Auto Reset	Sounder
NB326-S-2	✓		DC 24 V				
NB326-S-2L	✓		DC 24 V	✓			
NB326-S-4-12		✓	DC 12 V		✓		
NB326-S-4-24		✓	DC 24 V		✓		
NB326-S-4-AR-12		✓	DC 12 V		✓	✓	
NB326-S-4-AR-24		✓	DC 24 V		✓	✓	
NB326-S-4B-12		✓	DC 12 V		✓		✓
NB326-S-4B-24		✓	DC 24 V		✓		✓
NB326-S-4-ARB-12		✓	DC 12 V		✓	✓	✓
NB326-S-4-ARB-24		✓	DC 24 V		✓	✓	✓

NB326-H

Heat Detector

NB326 conventional heat detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors. An electronic thermistor sensor provides sensitive rate-of-rise alarm operation, or fixed-temperature operation when the response threshold value is exceeded.

EN-54

EN54-5

Key Features

- Advanced algorithms provide excellent detection discrimination
- Easy installation No programming required
- Sleek low-profile housing design
- Durable sensor. No adjustment or replacement required
- Dual LEDs for 360° visibility
- 2-Wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-Wire models include a N/C or N/O alarm relay output
- Connects to zone monitor for use with addressable control and indicating equipment

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (12 / 24) V
START-UP CURRENT	850 µA
STANDBY CURRENT	55 µA
ALARM CURRENT (MAX)	50 mA
RESET VOLTAGE	≤ 1 V
RESET TIME	≤ 1 s
ALARM RESPONSE THRESHOLD	57 °C static, and rate-of-rise
SOUNDER OUTPUT	≥ 70 dB @ 0.3 m
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
ALARM INDICATOR	Two continuous emitting red LEDs
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 37 mm
INGRESS PROTECTION RATING	IP-42

ORDER CODE	2-Wire	4-Wire	Normal Operating Voltage	Remote LED Output	Alarm Relay Output	Auto Reset
NB326-H-2	✓		DC 24 V			
NB326-H-2L	✓		DC 24 V	✓		
NB326-H-4-12		✓	DC 12 V			
NB326-H-4-24		✓	DC 24 V		✓	
NB326-H-4AR-12		✓	DC 12 V		✓	
NB326-H-4AR-24		✓	DC 24 V		✓	✓

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NB326-SH

Smoke/Heat Detector

EN-54

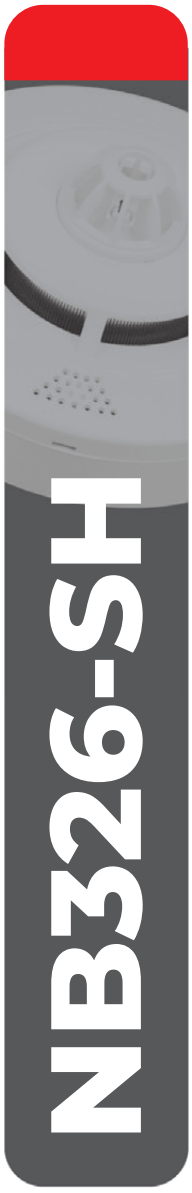
EN54-5

EN54-7

NB326 conventional photoelectric smoke/heat detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors. Advanced electronics in conjunction with a photoelectric smoke sensing chamber and an electronic thermistor provide early detection of fire and high immunity against unwanted alarms. The heat sensor provides fixed- temperature operation when the response threshold value is exceeded.

Key Features

- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena.
- Advanced algorithms provide excellent detection discrimination
- Ideal for both fast-flaming and slow smouldering fires.
- High immunity against unwanted alarms
- Stable smoke sensing chamber. No adjustment or replacement required
- Easy installation. No programming required
- Sleek low-profile housing design. Dual LEDs for 360° visibility
- Magnet-initiated alarm test function
- 2-Wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-Wire models include a N/C or N/O alarm relay output
- 4-Wire models available with auto-reset function and an internal sounder
- Connects to zone monitor NB773 for use with addressable control and indicating equipment



TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (12 / 24) V
START-UP CURRENT	≤ 130 µA
STANDBY CURRENT	≤ 100 µA
ALARM CURRENT (MAX)	35 mA ~ 70 mA
RESET VOLTAGE	≤ 1 V
RESET TIME	≤ 1 s
ALARM RESPONSE THRESHOLD (SMOKE)	0.10 dB/m ~ 0.14 dB/m
ALARM RESPONSE THRESHOLD (HEAT)	57 °C static
SOUNDER OUTPUT	≥ 70 dB @ 0.3 m
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
ALARM INDICATOR	Two continuous emitting red LEDs
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 50 mm
INGRESS PROTECTION RATING	IP-42

ORDER CODE	2-Wire	4-Wire	Normal Operating Voltage	Remote LED Output	Alarm Relay Output	Auto Reset	Sounder
NB326-SH-2	✓		DC 24 V				
NB326-SH-2L	✓		DC 24 V	✓			
NB326-SH-4-12		✓	DC 12 V		✓		
NB326-SH-4-24		✓	DC 24 V		✓		
NB326-SH-4-AR-12		✓	DC 12 V		✓	✓	
NB326-SH-4-AR-24		✓	DC 24 V		✓	✓	
NB326-SH-4B-12		✓	DC 12 V		✓		✓
NB326-SH-4B-24		✓	DC 24 V		✓		✓
NB326-SH-4-ARB-12		✓	DC 12 V		✓	✓	✓
NB326-SH-4-ARB-24		✓	DC 24 V		✓	✓	✓

NB283

10-60 VDC Conventional (non-addressable) smoke detector

NB283 conventional (non-addressable) photoelectric smoke detectors are state-of-the-art detectors suitable for connection to non-addressable fire detection control and indicating equipment, or to security devices via relay output.
Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of fire and high immunity against unwanted alarms.
The NB283 range of non-addressable detectors provide fire detection and alarm system designers with an economical fire detector for life safety and property protection applications.

Key Features

- Wide voltage range, DC10V-60V applicable
- Advanced algorithms provide excellent detection discrimination
- Ideal for both fast-flaming and slow smouldering fires.
- High immunity against unwanted alarms
- Stable photoelectric smoke sensing chamber. No adjustment or replacement required
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Surface-mount device (SMD) circuit board design
- Dual LEDs for 360° visibility
- 2 groups of N/C or N/O alarm relay output
- Drift compensation for long term stability
- Designed to comply with EN54-7 and UL268

Specifications

	NB283
Operating voltage	DC 10~60 V
Start-up current	Electro-chemical for CO Semi-conductor for Natural gas
Sounder output	≤ 150 μA
Start-up time	≤ 20 s
Standby current	≤ 65 μA
Alarm current (max)	30 mA
Maximum permitted current	80 mA
Cycle time	2s
Reset voltage	≤ 1 V
Reset time	≤ 1 s
Alarm response threshold (smoke)	(0.10 ~ 0.25) dB/m, (1.2 ~ 3.0) % / ft obscuration
Alarm relay	2 groups of N/O or N/C. contacts, contact rating 2 A @ DC 30 V / 0.5 A @ AC 125 V
Operating temperature	-20 °C ~ +80 °C
Operating humidity	0 % ~ 95 % RH, non-condensing
Storage temperature	-25 °C ~ +80 °C
Storage humidity	0 % ~ 98 % RH, non-condensing
Alarm indicator	Two continuous emitting red LEDs
Dimensions	ø 100 mm × 46 mm with base

Ordering Information

	4-Wire	Nominal Operating Voltage	Alarm Relay Output
NB283	✓	DC 24/48 V	✓

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NB380-S

Conventional Smoke Detector

NB380 conventional photoelectric smoke detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors. Advanced algorithms, in conjunction with a stable photoelectric smoke sensing chamber, provide early detection of smoke and high immunity against unwanted alarms. The **NB380** range of conventional detectors provide fire detection and alarm system designers with a Standards-compliant, economical smoke detector for life safety and property protection applications[1].

Key Features

- Advanced algorithms provide advanced detection discrimination
- Automatic drift compensation for long-term stability
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Stable photoelectric smoke sensing chamber
- High immunity against unwanted alarms
- Wide operation voltage range to accommodate DC12V and DC24V supply
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire models include a N/C or N/O alarm relay output
- 4-wire models available with auto-reset function
- Base options include:
  - Low profile 100 mm diameter base new version
  - Low profile 100 mm diameter base with remote LED Connection
  - Low profile 100 mm diameter base 4 wire
- Connects to zone monitor for use with addressable control and indicating equipment

TECHNICAL SPECIFICATIONS	NB380-S2 NB380-S2L	NB380-S4R
OPERATING VOLTAGE	DC (9 ~33) V	DC (10 ~28) V
START-UP CURRENT	≤ 350 µA	
START-UP TIME	≤ 8 s	
STANDBY CURRENT	≤ 45 µA	
ALARM CURRENT (MAX) [a] without remote LED [b] with remote LED	19 mA [a] @ 9 V 24 mA [b] @ 9 V 77 mA [a] @ 28 V 102 mA [b] @ 28 V 64 mA [a] @ 24 V 85 mA [b] @ 24V	12 mA @ 10 V 48 mA @ 28 V 40 mA @ 24 V
MAXIMUM PERMITTED CURRENT	100 mA without remote LED	
SAMPLING TIME	3 s ~ 5 s	
RESET VOLTAGE	≤ 2.1 V	

NB380-S

Smoke Detector

TECHNICAL SPECIFICATIONS	NB380-S2 NB380-S2L	NB380-S4R
RESET TIME	≤ 3 s	
ALARM RESPONSE THRESHOLD (SMOKE)	0.08 dB/m ~ 0.12 dB/m	
ALARM RELAY (MAX)		SPST. N/O or N/C. 2.0 A @ DC 30 V / 0.5 A @ AC 125 V
OPERATING TEMPERATURE	-10 °C ~ +50 °C	
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing	
STORAGE TEMPERATURE	-25 °C ~ +80 °C	
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing	
ALARM INDICATOR	Two red LEDs	
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 38 mm	

Approvals	EN54-7 [a]	CE	MED [b]
NB380-S2	✓	✓	✓
NB380-S2L	✓	✓	✓
NB380-S4R	✓	✓	✓

[a] EN 54-7 Fire detection and fire alarm systems. Smoke detectors. Point detectors using scattered light, transmitted light or ionization

[b] MED Marine Equipment Directive

ORDER CODE	2-Wire	4-Wire	Normal Operating Voltage	Remote LED Output	Alarm Relay Output
NB380-S2	✓		DC 24 V		
NB380-S2L	✓		DC 24 V	✓	
NB380-S4R		✓	DC 24 V		✓

Accessories	Part Number
Low profile 100 mm diameter base new version	972913
Low profile 100 mm diameter base w/ remote LED connection	972914
Low profile 100 mm diameter base 4 wire	972915
Remote Indicator [1]	NB106
Zone Monitor	NB 773

[1] Suitable for NB380-S2L only

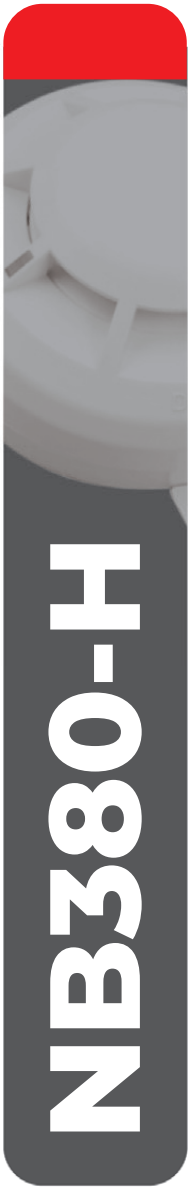
wizMart

NB380-H

Heat Detector

NB380 conventional heat detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors. An electronic thermistor sensor provides sensitive rate-of-rise alarm operation, or fixed-temperature operation when the response threshold value is exceeded. The NB380 range of conventional detectors provide fire detection and alarm system designers with a Standards compliant, economical heat detector for property protection applications where smoke or multi-sensor detectors may not be suitable due to environmental conditions.

EN54-5



Key Features

- Advanced algorithms provide excellent detection discrimination
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Durable sensor No adjustment or replacement required
- Wide operation voltage range to accommodate DC12V and DC24V supply
- Surface-mount device (SMD) circuit board design
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire models include a N/C or N/O alarm relay output
- 4-wire models available with optional auto-reset function
- Base options include
  - Low profile 100 mm diameter base new version
  - Low profile 100 mm diameter base with remote LED Connection
  - Low profile 100 mm diameter base 4 wire
- Connects to zone monitor for use with addressable control and indicating equipment

TECHNICAL SPECIFICATIONS	NB380-H2 NB380-H2L	NB380-H4R
OPERATING VOLTAGE	DC (9 / 33) V	DC (10 / 28) V
START-UP CURRENT	≤ 350 µA	
START-UP TIME	≤ 8 s	
STANDBY CURRENT	≤ 45 µA	
ALARM CURRENT (MAX) [a] without remote LED [b] with remote LED	19 mA [a] @ 9 V 24 mA [b] @ 9 V 77 mA [a] @ 28 V 102 mA [b] @ 28 V 64 mA [a] @ 24 V 85 mA [b] @ 24V	12 mA @ 10 V 48 mA @ 28 V 40 mA @ 24 V
MAXIMUM PERMITTED CURRENT	100 mA without remote LED	
SAMPLING TIME	5 s	
RESET VOLTAGE	≤ 2.1 V	

NB380-H

Heat Detector

TECHNICAL SPECIFICATIONS	NB380-H2 NB380-H2L	NB380-H4R
RESET TIME	≤ 3 s	
ALARM RESPONSE THRESHOLD	A1R and Static	
ALARM RELAY (MAX)		SPST. N/O or N/C. 2.0 A @ DC 30 V / 0.5 A @ AC 125 V
OPERATING TEMPERATURE	-10 °C ~ +50 °C	
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing	
STORAGE TEMPERATURE	-25 °C ~ +80 °C	
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing	
ALARM INDICATOR	Two red LEDs	
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 38 mm	
CEILING SPACING FOR HEAT SENSOR	Defined by local installation regulations / standards	

ORDER CODE	2-Wire	4-Wire	Normal Operating Voltage	Remote LED Output	Alarm Relay Output
NB380-H2	✓		DC 24 V		
NB380-H2L	✓		DC 24 V	✓	
NB380-H4R		✓	DC 24 V		✓

Accessories	Part Number
Low profile 100 mm diameter base new version	972913
Low profile 100 mm diameter base w/ remote LED connection	972914
Low profile 100 mm diameter base 4 wire	972915
Remote Indicator [1]	NB106
Zone Monitor	NB 773

[1] Suitable for NB380-H2L only

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NB380-SH

Smoke/Heat Detector

NB380-SH conventional photoelectric smoke/heat detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors. Advanced electronics combine a photoelectric smoke sensing chamber and an electronic thermistor to provide early detection of fire and high immunity against unwanted alarms.

The NB380 range of conventional detectors provide fire detection and alarm system designers with a Standards compliant, economical fire detector for life safety and property protection applications.

EN54-5
EN54-7

Key Features

- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena
- Advanced algorithms provide excellent detection discrimination
- Automatic drift compensation for long-term stability
- Ideal for both fast-flaming and smouldering fires
- High immunity against unwanted alarms
- Stable smoke sensing chamber
- Wide operation voltage range to accommodate DC12V and DC24V supply
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire models include a N/C or N/O alarm relay output
- 4-wire models available with auto-reset function
- Base options include
  - Low profile 100 mm diameter base new version
  - Low profile 100 mm diameter base with remote LED Connection
  - Low profile 100 mm diameter base 4 wire
- Connect to zone monitor for use with addressable control and indicating equipment

TECHNICAL SPECIFICATIONS	NB380-SH2 NB380-SH2L	NB380-SH4R
OPERATING VOLTAGE	DC (9 / 33) V	DC (10 / 28) V
START-UP CURRENT	≤ 350 µA	
START-UP TIME	≤ 8 s	
STANDBY CURRENT	≤ 50 µA	
ALARM CURRENT (MAX) [a] without remote LED [b] with remote LED	19 mA [a] @ 9 V 24 mA [b] @ 9 V 77 mA [a] @ 28 V 102 mA [b] @ 28 V 64 mA [a] @ 24 V 85 mA [b] @ 24V	12 mA @ 10 V 48 mA @ 28 V 40 mA @ 24 V

NB380-SH

Smoke/Heat Detector

TECHNICAL SPECIFICATIONS	NB380-SH2 NB380-SH2L	NB380-SH4R
MAXIMUM PERMITTED CURRENT	100 mA without remote LED	
SAMPLING TIME	5 s	
RESET VOLTAGE	≤ 2.1 V	
RESET TIME	≤ 3 s	
ALARM RESPONSE THRESHOLD (SMOKE)	0.07 dB/m ~ 0.13 dB/m (SH2) 0.08 dB/m ~ 0.13 dB/m (SH2L)	0.07 dB/m ~ 0.11 dB/m
ALARM RESPONSE THRESHOLD (HEAT)	A2	
ALARM RELAY (MAX)		SPST. N/O or N/C. 2.0 A @ DC 30 V / 0.5 A @ AC 125 V
OPERATING TEMPERATURE	-10 °C ~ +50 °C	
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing	
STORAGE TEMPERATURE	-25 °C ~ +80 °C	
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing	
ALARM INDICATOR	Two red LEDs	
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 48 mm	

ORDER CODE	2-Wire	4-Wire	Normal Operating Voltage	Remote LED Output	Alarm Relay Output
NB380-SH2	✓		DC 24 V		
NB380-SH2L	✓		DC 24 V	✓	
NB380-SH4R		✓	DC 24 V		✓

Accessories	Part Number
Low profile 100 mm diameter base new version	972913
Low profile 100 mm diameter base w/ remote LED connection	972914
Low profile 100 mm diameter base 4 wire	972915
Remote Indicator [1]	NB106
Zone Monitor	NB 773

[1] Suitable for NB380-SH2L only

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NB380F-S

Conventional Smoke Detect

NB380F conventional photoelectric smoke detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type
1 detectors .
Advanced algorithm in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms.
The NB380F range of conventional detectors provide fire detection and alarm system designers with a Standards- compliant, economical smoke detector for life safety and property protection applications.

Key Features

The NB380F smoke detectors are available in a wide range of variants to suit many applications.

- Advanced algorithms provide advanced detection discrimination
- Automatic drift compensation for long-term stability
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Stable photoelectric smoke sensing chamber. No adjustment or replacement required
- High immunity against unwanted alarms
- Wide operation voltage range to be accommodate DC12V and DC24V supply
- Surface-mount device (SMD) circuit board design
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire models include a N/C or N/O alarm relay output
- 4-wire models available with auto-reset function
- Base options include
  - ›› Lowprofile100mmdiameterbasenewversion
  - ›› Lowprofile100mmdiameterbasewithremote LED Connection
  - ›› Lowprofile100mmdiameterbase4wire
- Connects to zone monitor for use with addressable control and indicating equipment

EN54-7

Approvals

NB380F heat detectors shall have the following approvals.

	EN 54-7 [a]	CE	MED [b]
NB380F-S2	✓	✓	✓
NB380F-S2L	✓	✓	✓
NB380F-S4R	✓	✓	✓

[a] EN 54-7 Fire detection and fire alarm systems. Smoke detectors. Point detectors using scattered light, transmitted light or ionization
[b] MED Marine Equipment Directive

NB380F-S
Conventional Smoke Detect

Accessories

The following accessories are compatible with NB380F smoke detectors.

Description	Part number	Datasheet
Low profile 100 mm diameter base new version	972913	
Low profile 100 mm diameter base with remote LED Connection	972914	
Low profile 100 mm diameter base 4 wire	974915	
Remote indicator [a]	NB106	31-0012
Zone monitor	NB773	31-0056

[a] Suitable for NB380F-S2L only. Will not have Standards approval.

Specifications

	NB380F-S2 / NB380F-S2L	NB380F-S4R
Operating voltage	DC (9 ~ 33) V	DC (10 ~ 28) V
Start-up current	≤ 350 µA	
Start-up time	≤ 8 s	
Standby current	≤45 µA	
Alarm current (max)	19 mA (without remote LED) @ 9 V 24 mA (with remote LED) @ 9 V 77 mA (without remote LED) @ 28 V 102 mA (with remote LED) @ 28 V 64 mA (without remote LED) @ 24 V 85 mA (with remote LED) @ 24 V	12 mA @ 10 V 48 mA @ 28 V 40 mA @ 24 V
Maximum permitted current	100 mA without remote LED	
Sampling time	3 s ~ 5 s	
Reset voltage	≤ 2.1 V	
Reset time	≤ 3 s	
Alarm response threshold (smoke)	0.08 dB/m ~ 0.12 dB/m	
Alarm relay	---	SPST. N/O or N/C. 2.0 A @ DC 30 V / 0.5 A @ AC 125 V
Operating temperature	-10 °C ~ +50 °C	
Operating humidity	0 % ~ 95 % RH, non-condensing	
Storage temperature	-25 °C ~ +80 °C	
Storage humidity	0 % ~ 98 % RH, non-condensing	
Alarm indicator	Two continuous emitting red LEDs	
Dimensions (excluding contacts)	ø 100 mm × 38 mm	
Ceiling spacing for heat sensor	≤ 15 m	

Ordering Information

Model	2-Wire	4-Wire	Nominal Operating Voltage	Remote LED Output	Alarm Relay Output
NB380F-S2	✓	---	DC 24 V	---	---
NB380F-S2L [a]	✓	---	DC 24 V	✓	---
NB380F-S4R	---	✓	DC 24 V	---	✓

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NB380F-H

Conventional Heat Detect

NB380F conventional heat detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors1.
An electronic thermistor sensor provides sensitive rate-of- rise alarm operation, or fixed-temperature operation when the response threshold value is exceeded.
The NB380F range of conventional detectors provide fire detection and alarm system designers with a Standards- compliant, economical heat detector for property protection applications2 where smoke or multi-sensor detectors may not be suitable due to environmental conditions.

EN54-5

NB380F-H

Key Features

The NB380F heat detectors are available in a wide range of variants to suit many applications.

- Advanced algorithms provide excellent detection discrimination
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Durable sensor. No adjustment or replacement required
- Wide operation voltage range to be accommodate DC12V and DC24V supply
- Surface-mount device (SMD) circuit board design
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire models include a N/C or N/O alarm relay output
- 4-wire models available with optional auto-reset function
- Base options include
  - ›› Low profile 100 mm diameter base new version
  - ›› Low profile 100 mm diameter base with remote LED Connection
  - ›› Lowprofile100mmdiameterbase4wire
- Connects to zone monitor for use with addressable control and indicating equipment

Approvals

NB380F heat detectors shall have the following approvals.

	EN 54-5 [a]	CE	MED [b]
NB380F-H2	✓	✓	✓
NB380F-H2L	✓	✓	✓
NB380F-H4R	✓	✓	✓

[a] EN 54-5 Fire detection and fire alarm systems. Heat detectors. Point detectors.
[b] MED Marine Equipment Directive

NB380F-H

Conventional Heat Detect

Accessories

The following accessories are compatible with NB380F heat detectors.

Description	Part number	Datasheet
Low profile 100 mm diameter base new version	972913	
Low profile 100 mm diameter base with remote LED Connection	972914	
Low profile 100 mm diameter base 4 wire	974915	
Remote indicator [a]	NB106	31-0012
Zone monitor	NB773	31-0056

[a] Suitable for NB380F-H2L only. Will not have Standards approval.

Specifications

	NB380F-H2 / NB380F-H2L	NB380F-H4R
Operating voltage	DC (9 ~ 33) V	DC (10 ~ 28) V
Start-up current	≤ 350 μA	
Start-up time	≤ 8 s	
Standby current	≤45 μA	
Alarm current (max)	19 mA (without remote LED) @ 9 V 24 mA (with remote LED) @ 9 V 77 mA (without remote LED) @ 28 V 102 mA (with remote LED) @ 28 V 64 mA (without remote LED) @ 24 V 85 mA (with remote LED) @ 24 V	12 mA @ 10 V 48 mA @ 28 V 40 mA @ 24 V
Maximum permitted current	100 mA without remote LED	
Sampling time	5 s	
Reset voltage	≤ 2.1 V	
Reset time	≤ 3 s	
Alarm response threshold	A 1 R	
Alarm relay	---	SPST. N/O or N/C. 2.0 A @ DC 30 V / 0.5 A @ AC 125 V
Operating temperature	-10 °C ~ +50 °C	
Operating humidity	0 % ~ 95 % RH, non-condensing	
Storage temperature	-25 °C ~ +80 °C	
Storage humidity	0 % ~ 98 % RH, non-condensing	
Alarm indicator	Two continuous emitting red LEDs	
Dimensions (with base)	ø 100 mm × 38 mm	
Ceiling spacing for heat sensor	≤ 15 m	

Ordering Information

Model	2-Wire	4-Wire	Nominal Operating Voltage	Remote LED Output	Alarm Relay Output
NB380F-H2	✓	---	DC 24 V	---	---
NB380F-H2L [a]	✓	---	DC 24 V	✓	---
NB380F-H4R	---	✓	DC 24 V	---	✓

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NB380F-SH

Conventional Smoke and Heat Detect

EN54-5
EN54-7

NB380F conventional photoelectric smoke/heat detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors1.
Advanced electronics in conjunction with a photoelectric smoke sensing chamber and an electronic thermistor provide early detection of fire and high immunity against unwanted alarms.
The NB380F range of conventional detectors provide fire detection and alarm system designers with a Standards- compliant, economical fire detector for life safety and property protection applications.

Key Features

The NB380F smoke/heat detectors are available in a wide range of variants to suit many applications.

- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena.
- Advanced algorithms provide excellent detection discrimination
- Automatic drift compensation for long-term stability
- Ideal for both fast-flaming and slow smoldering fires.
- High immunity against unwanted alarms
- Stable smoke sensing chamber. No adjustment or replacement required
- Wide operation voltage range to be accommodate DC12V and DC24V supply
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Surface-mount device (SMD) circuit board design
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire models include a N/C or N/O alarm relay output
- 4-wire models available with auto-reset function
- Base options include
  - ›› Lowprofile100mmdiameterbasenewversion
  - ›› Lowprofile100mmdiameterbasewithremote LED Connection
  - ›› Lowprofile100mmdiameterbase4wire
- Connects to zone monitor for use with addressable control and indicating equipment

Approvals

NB380F heat detectors shall have the following approvals.

	EN 54-5 / 7 [a]	CE	MED [b]
NB380F-SH2	✓	✓	✓
NB380F-SH2L	✓	✓	✓
NB380F-SH4R	✓	✓	✓

[a] EN 54-5 Fire detection and fire alarm systems. Heat detectors. Point detectors.
EN 54-7 Fire detection and fire alarm systems. Smoke detectors. Point detectors using scattered light, transmitted light or ionization
[b] MED Marine Equipment Directive

NB380F-SH

Conventional Smoke and Heat Detect

Accessories

The following accessories are compatible with NB380F smoke/heat detectors.

Description	Part number	Datasheet
Low profile 100 mm diameter base new version	972913	
Low profile 100 mm diameter base with remote LED Connection	972914	
Low profile 100 mm diameter base 4 wire	974915	
Remote indicator [a]	NB106	31-0012
Zone monitor	NB773	31-0056

[a] Suitable for NB380F-SH2L only. Will not have Standards approval.

Specifications

	NB380F-SH2	NB380F-SH2L	NB380F-SH4R
Operating voltage	DC (9 ~ 33) V		DC (10 ~ 28) V
Start-up current	≤ 350 μA		
Start-up time	≤ 8 s		
Standby current	≤50 μA		
Alarm current (max)	19 mA (without remote LED) @ 9 V 24 mA (with remote LED) @ 9 V 77 mA (without remote LED) @ 28 V 102 mA (with remote LED) @ 28 V 64 mA (without remote LED) @ 24 V 85 mA (with remote LED) @ 24 V		12 mA @ 10 V 48 mA @ 28 V 40 mA @ 24 V
Maximum permitted current	100 mA without remote LED		
Sampling time	3 s ~ 5 s		
Reset voltage	≤ 2.1 V		
Reset time	≤ 3 s		
Alarm response threshold (smoke)	0.07 dB/m ~ 0.13 dB/m	0.08 dB/m ~ 0.13 dB/m	0.07 dB/m ~ 0.11 dB/m
Alarm response threshold (heat)	A2		
Alarm relay	---		SPST. N/O or N/C. 2.0 A @ DC 30 V / 0.5 A @ AC 125 V
Operating temperature	-10 °C ~ +50 °C		
Operating humidity	0 % ~ 95 % RH, non-condensing		
Storage temperature	-25 °C ~ +80 °C		
Storage humidity	0 % ~ 98 % RH, non-condensing		
Alarm indicator	Two continuous emitting red LEDs		
Dimensions (excluding contacts)	ø 100 mm × 48 mm		
Ceiling spacing for heat sensor	≤ 15 m		

Ordering Information

Model	2-Wire	4-Wire	Nominal Operating Voltage	Remote LED Output	Alarm Relay Output
NB380F-SH2	✓	---	DC 24 V	---	---
NB380F-SH2L [a]	✓	---	DC 24 V	✓	---
NB380F-SH4R	---	✓	DC 24 V	---	✓

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NB380-S (UL)

Smoke Detector

UL 268
Edition 7

NB380-S conventional photoelectric smoke detectors are state - of - the - art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors via a specific interface module. Advanced algorithms, in conjunction with a stable photoelectric smoke sensing chamber, provide early detection of smoke and high immunity against unwanted alarms. The **NB380-S** range of conventional detectors provide fire detection and alarm system designers with a Standards-compliant, economical smoke detector for life safety and property protection applications.

Key Features

- Advanced algorithms provide advanced detection discrimination
- Automatic drift compensation for long-term stability
- Two IR transmitter. Photoelectric smoke sensing technology
- Easy installation. No programming required. Low maintenance
- Stable photoelectric smoke sensing chamber.
- Sleek low-profile housing design
- Cooking nuisance immunity. High immunity against unwanted alarms
- Wide operation voltage range to accommodate DC12V and DC24V supply
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire models include a N/C or N/O alarm relay output
- 4-wire models available with auto-reset function
- Base options include:
  - Low profile 100 mm diameter base new version
  - Low profile 100 mm diameter base with remote LED Connection
  - Low profile 100 mm diameter base 4 wire
- Connects to zone monitor to interface with addressable control and indicating equipment

TECHNICAL SPECIFICATIONS	NB380-S2-UL NB380-S2L-UL	NB380-S4R-UL
OPERATING VOLTAGE	DC (9 / 33) V	DC (10 / 28) V
START-UP CURRENT	≤ 350 µA	
START-UP TIME	≤ 8 s	
STANDBY CURRENT (MAX.)	≤ 50 µA	
ALARM CURRENT (MAX) [a] without remote LED [b] with remote LED	19 mA [a] @ 9 V 24 mA [b] @ 9 V 77 mA [a] @ 28 V 102 mA [b] @ 28 V 64 mA [a] @ 24 V 85 mA [b] @ 24V	12 mA @ 10 V 48 mA @ 28 V 40 mA @ 24 V
MAXIMUM PERMITTED CURRENT	100 mA without remote LED	
SAMPLING TIME	3 s ~ 8 s	
RESET VOLTAGE	≤ 2.1 V	

NB380-S (UL)

Smoke Detector

TECHNICAL SPECIFICATIONS	NB380-S2 NB380-S2L	NB380-S4R
RESET TIME	≤ 3 s	
ALARM RESPONSE THRESHOLD (SMOKE)	1.0 – 4.0%/ft	
ALARM RELAY (MAX)		SPST. N/O or N/C. 2.0 A @ DC 30 V / 0.5 A @ AC 125 V
OPERATING TEMPERATURE	-10 °C ~ +50 °C	
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing	
STORAGE TEMPERATURE	-25 °C ~ +80 °C	
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing	
ALARM INDICATOR	Two red LEDs	
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 38 mm	

ORDER CODE	2-Wire	4-Wire	Normal Operating Voltage	Remote LED Output	Alarm Relay Output
NB380-S2-UL	✓		9-33V DC		
NB380-S2L-UL	✓		9-33V DC	✓	
NB380-S4R-UL		✓	10-28V DC		✓

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NB380-H (UL)

Heat Detector

UL 521

NB380-H conventional heat detectors are state - of - the - art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors. An electronic thermistor sensor provides sensitive rate-of-rise alarm operation, or fixed-temperature operation when the response threshold value is exceeded. The NB380 range of conventional detectors provide fire detection and alarm system designers with a Standards compliant, economical heat detector for property protection applications where smoke or multi-sensor detectors may not be suitable due to environmental conditions.

Key Features

- Advanced algorithms provide excellent detection discrimination
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Durable sensor No adjustment or replacement required
- Wide operation voltage range to accommodate DC12V and DC24V supply
- Surface-mount device (SMD) circuit board design
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire models include a N/C or N/O alarm relay output
- 4-wire models available with optional auto-reset function
- Base options include
  - Low profile 100 mm diameter base new version
  - Low profile 100 mm diameter base with remote LED Connection
  - Low profile 100 mm diameter base 4 wire
- Connects to zone monitor for use with addressable control and indicating equipment

TECHNICAL SPECIFICATIONS	NB380-H2-UL NB380-H2L-UL	NB380-H4R-UL
OPERATING VOLTAGE	DC (9 / 33) V	DC (10 / 28) V
START-UP CURRENT	≤ 350 µA	
START-UP TIME	≤ 8 s	
STANDBY CURRENT	≤ 45 µA	
ALARM CURRENT (MAX) [a] without remote LED [b] with remote LED	19 mA [a] @ 9 V 24 mA [b] @ 9 V 77 mA [a] @ 28 V 102 mA [b] @ 28 V 64 mA [a] @ 24 V 85 mA [b] @ 24V	12 mA @ 10 V 48 mA @ 28 V 40 mA @ 24 V
MAXIMUM PERMITTED CURRENT	100 mA without remote LED	
SAMPLING TIME	8 s	
RESET VOLTAGE	≤ 2.1 V	

NB380-H (UL)

Heat Detector

TECHNICAL SPECIFICATIONS	NB380-H2 NB380-H2L	NB380-H4R
RESET TIME	≤ 3 s	
Heat Class	Ordinary - Group A - 138°F/59°C	
ALARM RELAY (MAX)		SPST. N/O or N/C. 2.0 A @ DC 30 V / 0.5 A @ AC 125 V
OPERATING TEMPERATURE	-10 °C ~ +50 °C	
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing	
STORAGE TEMPERATURE	-25 °C ~ +80 °C	
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing	
ALARM INDICATOR	Two red LEDs	
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 38 mm	
CEILING SPACING FOR HEAT SENSOR	Defined by local installation regulations / standards	

ORDER CODE	2-Wire	4-Wire	Normal Operating Voltage	Remote LED Output	Alarm Relay Output
NB380-H2-UL	✓		9-33V DC		
NB380-H2L-UL	✓		9-33V DC	✓	
NB380-H4R-UL		✓	10-28V DC		✓

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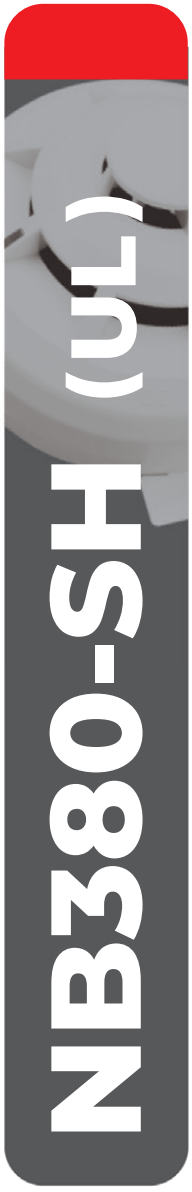
NB380-SH (UL)

Smoke/Heat Detector

NB380-SH conventional photoelectric smoke/heat detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors. Advanced electronics combine a photoelectric smoke sensing chamber and an electronic thermistor to provide early detection of fire and high immunity against unwanted alarms.

The **NB380** range of conventional detectors provide fire detection and alarm system designers with a Standards compliant, economical fire detector for life safety and property protection applications.

UL 268
Edition 7
and
UL 521



Key Features

- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena
- Advanced algorithms provide excellent detection discrimination
- Automatic drift compensation for long-term stability
- Ideal for both fast-flaming and smouldering fires
- Cooking nuisance immunity. High immunity against unwanted alarms
- Stable smoke sensing chamber equipped with two IR transmitter
- Wide operation voltage range to accommodate DC12V and DC24V supply
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire models include a N/C or N/O alarm relay output
- 4-wire models available with auto-reset function
- Base options include
  - Low profile 100 mm diameter base new version
  - Low profile 100 mm diameter base with remote LED Connection
  - Low profile 100 mm diameter base 4 wire
- Connect to zone monitor for use with addressable control and indicating equipment

TECHNICAL SPECIFICATIONS	NB380-SH2-UL NB380-SH2L-UL	NB380-SH4R-UL
OPERATING VOLTAGE	DC (9 / 33) V	DC (10 / 28) V
START-UP CURRENT	≤ 350 µA	
START-UP TIME	≤ 8 s	
STANDBY CURRENT	≤ 50 µA	
ALARM CURRENT (MAX) [a] without remote LED [b] with remote LED	19 mA [a] @ 9 V 24 mA [b] @ 9 V 77 mA [a] @ 28 V 102 mA [b] @ 28 V 64 mA [a] @ 24 V 85 mA [b] @ 24V	12 mA @ 10 V 48 mA @ 28 V 40 mA @ 24 V

NB380-SH (UL)

Smoke/Heat Detector

TECHNICAL SPECIFICATIONS	NB380-SH2-UL NB380-SH2L-UL	NB380-SH4R-UL
MAXIMUM PERMITTED CURRENT	100 mA without remote LED	
SAMPLING TIME	8 s	
RESET VOLTAGE	≤ 2.1 V	
RESET TIME	≤ 3 s	
ALARM RESPONSE THRESHOLD (SMOKE)	1.0 – 4.0 %/ft	1.0 – 4.0 %/ft
ALARM RESPONSE THRESHOLD (HEAT)	Ordinary - Group A - 138°F/59°C	
ALARM RELAY (MAX)		SPST. N/O or N/C. 2.0 A @ DC 30 V / 0.5 A @ AC 125 V
OPERATING TEMPERATURE	-10 °C ~ +50 °C	
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing	
STORAGE TEMPERATURE	-25 °C ~ +80 °C	
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing	
ALARM INDICATOR	Two red LEDs	
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 48 mm	

ORDER CODE	2-Wire	4-Wire	Normal Operating Voltage	Remote LED Output	Alarm Relay Output
NB380-SH2-UL	✓		9-33V DC		
NB380-SH2L-UL	✓		9-33V DC	✓	
NB380-SH4R-UL		✓	10-28V DC		✓

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NB382-S (UL)

Conventional smoke detect

UL 268
Edition 7

NB382-UL conventional photoelectric smoke detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type 1 detectors .
Advanced algorithm in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms.
The NB382-UL range of conventional detectors provide fire detection and alarm system designers with a Standards-compliant, economical smoke detector for life safety and property protection applications.

Key Features

The NB382-UL smoke detectors are available in a wide range of variants to suit many applications.

- Adopt dual optical Sensor photoelectric smoke technology, early detection of fire enabled
- Two dimensional parameters introduced to realize high immunity to false alarm.
- Drift compensation feature assures long term reliability
- Temperature compensation, e.g, compensation for IR LED light output in cold / heat condition
- Smoke chamber fault monitoring
- Optional magnet test feature
- Optional smoke sensitivity reader feature
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Stable photoelectric smoke sensing chamber. No adjustment or replacement required
- Wide operation voltage range to be accommodate DC12V and DC24V supply
- Surface-mount device (SMD) circuit board design
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire models include a N/C or N/O alarm relay output
- Connects to zone monitor for use with addressable control and indicating equipment

NB382-S (UL)

Conventional smoke detect

Accessories

The following accessories are compatible with NB382-UL smoke detectors.

Description	Part number	Datasheet
Low profile 100 mm diameter base	772914	31-0002
4-term. 150 mm low profile base	782914	31-0002
8-term. 100 mm low profile base	774914	31-0003
8-term. 150 mm low profile base	784914	31-0003
Remote indicator [a]	NB106	31-0012
Zone monitor	NB773	31-0056

[a] Suitable for NB382-S2L-UL only. Will not have Standards approval.

Specifications

	NB382S-2 / NB382S-2L NB382S-2M / NB382S-2LM NB382S-2R	NB382S-4 / NB382S-4M NB382S-4R
Operating voltage	DC (9 ~ 33) V	DC (10 ~ 28) V
Start-up current	≤ 500 µA	
Start-up time	≤ 8 s	
Standby current	≤50 µA	
Alarm current (max)	64 mA (without remote LED) @ 24 V 84 mA (with remote LED) @ 24V	
Maximum permitted current	100 mA without remote LED	
Sampling time	4 s	
Reset voltage	≤ 2.1 V	
Reset time	≤ 3 s	
Alarm relay	---	SPST. N/O or N/C. 2.0 A @ DC 30 V / 0.5 A @ AC 125 V
Operating temperature	0 °C ~ +37.8 °C	
Operating humidity	0 % ~ 95 % RH, non-condensing	
Storage temperature	-25 °C ~ +80 °C	
Storage humidity	0 % ~ 98 % RH, non-condensing	
Alarm indicator	Two continuous emitting red LEDs	
Dimensions	ø 100 mm × 48 mm	
Ingress protection rating	IP-43	
Ceiling spacing for heat sensor	≤ 15 m	

Ordering Information

Model	2-Wire	4-Wire	Remote LED Output	Alarm Relay Output	Reed Switch	Reader
NB382S-2	✓	---	---	---	---	---
NB382S-2L	✓	---	✓	---	---	---
NB382S-4	---	✓	---	✓	---	---
NB382S-2M	✓	---	---	---	✓	---
NB382S-2LM	✓	---	✓	---	✓	---
NB382S-4M	---	✓	---	✓	✓	---
NB382S-2R	✓	---	---	---	---	✓
NB382S-4R	---	✓	---	✓	---	✓

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NB382-H (UL)

Conventional heat detect

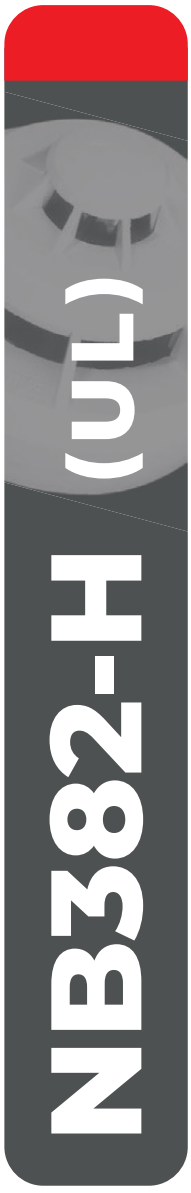
UL 521

NB382-UL conventional heat detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors .
An electronic thermistor sensor provides sensitive rate-of- rise alarm operation, or fixed-temperature operation when the response threshold value is exceeded.
The NB382-UL range of conventional detectors provide fire detection and alarm system designers with a Standards-compliant, economical heat detector for property protection applications2 where smoke or multi- sensor detectors may not be suitable due to environmental conditions.

Key Features

The NB382-UL heat detectors are available in a wide range of variants to suit many applications.

- Advanced algorithms provide excellent detection discrimination
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Durable sensor. No adjustment or replacement required
- Wide operation voltage range to accommodate DC12V and DC24V supply
- Optional magnet test feature
- Surface-mount device (SMD) circuit board design
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire models include a N/C or N/O alarm relay output
- Connects to zone monitor for use with addressable control and indicating equipment



Accessories

The following accessories are compatible with NB382-UL smoke detectors.

Description	Part number	Datasheet
Low profile 100 mm diameter base	772914	31-0002
4-term. 150 mm low profile base	782914	31-0002
8-term. 100 mm low profile base	774914	31-0003
8-term. 150 mm low profile base	784914	31-0003
Remote indicator [a]	NB106	31-0012
Zone monitor	NB773	31-0056

[a] Suitable for NB382-S2L-UL only. Will not have Standards approval.

NB382-H (UL)

Conventional heat detect

Specifications

	NB382H-2 / NB382H-2L NB382H-2M / NB382H-2LM	NB382H-4 NB382H-4M
Operating voltage	DC (9 ~ 33) V	DC (10 ~ 28) V
Start-up current	≤ 500 μA	
Start-up time	≤ 8 s	
Standby current	≤50 μA	
Alarm current (max)	64 mA (without remote LED) @ 24 V 84 mA (with remote LED) @ 24V	
Maximum permitted current	100 mA without remote LED	
Sampling time	4 s	
Reset voltage	≤ 2.1 V	
Reset time	≤ 3 s	
Alarm response threshold	59 °C, ordinary Class	
Alarm relay	---	SPST. N/O or N/C. 2.0 A @ DC 30 V / 0.5 A @ AC 125 V
Operating temperature	0 °C ~ +37.8 °C	
Operating humidity	0 % ~ 95 % RH, non-condensing	
Storage temperature	-25 °C ~ +80 °C	
Storage humidity	0 % ~ 98 % RH, non-condensing	
Alarm indicator	Two continuous emitting red LEDs	
Dimensions	ø 100 mm × 48 mm	
Ingress protection rating	IP-43	
Ceiling spacing for heat sensor	≤ 15 m	

Ordering Information

Model	2-Wire	4-Wire	Remote LED Output	Alarm Relay Output	Reed Switch	Reader
NB382H-2	✓	---	---	---	---	---
NB382H-2L	✓	---	✓	---	---	---
NB382H-4	---	✓	---	✓	---	---
NB382H-2M	✓	---	---	---	✓	---
NB382H-2LM	✓	---	✓	---	✓	---
NB382H-4M	---	✓	---	✓	✓	---

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NB382-SH (UL)

Conventional smoke amd heat detect

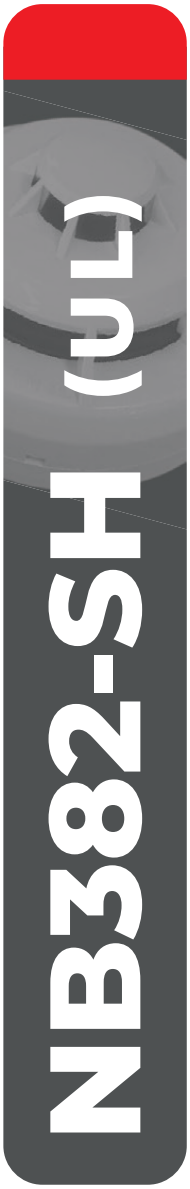
UL 268
Edition 7
and
UL 521

NB382-UL conventional photoelectric smoke/heat detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept 1 conventional type detectors .
Advanced electronics in conjunction with a photoelectric smoke sensing chamber and an electronic thermistor provide early detection of fire and high immunity against unwanted alarms.
The NB382-UL range of conventional detectors provide fire detection and alarm system designers with a Standards-compliant, economical fire detector for life safety and property protection applications.

Key Features

The NB382-UL smoke/heat detectors are available in a wide range of variants to suit many applications.

- Adopt dual optical Sensor photoelectric smoke technology, early detection of fire enabled
- Two dimensional parameters introduced to realize high immunity to false alarm.
- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena.
- Drift compensation feature assures long term reliability
- Temperature compensation, e.g, compensation for IR LED light output in cold / heat condition
- Smoke chamber fault monitoring
- Ideal for both fast-flaming and slow smoldering fires.
- Stable smoke sensing chamber. No adjustment or replacement required
- Optional magnet test feature
- Option smoke sensitivity reading feature
- Wide operation voltage range to accommodate DC12V and DC24V supply
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Surface-mount device (SMD) circuit board design
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire models include a N/C or N/O alarm relay output
- Connects to zone monitor for use with addressable control and indicating equipment



NB382-SH (UL)

Conventional smoke amd heat detect

Accessories

The following accessories are compatible with NB382-UL smoke/heat detectors.

Description	Part number	Datasheet
Low profile 100 mm diameter base	772914	31-0002
4-term. 150 mm low profile base	782914	31-0002
8-term. 100 mm low profile base	774914	31-0003
8-term. 150 mm low profile base	784914	31-0003
Remote indicator [a]	NB106	31-0012
Zone monitor	NB773	31-0056

[a] Suitable for NB382-S2L-UL only. Will not have Standards approval.

Specifications

	NB382SH-2 / NB382SH-2L NB382SH-2M / NB382SH-2LM NB382SH-2R	NB382SH-4 / NB382SH-4M NB382SH-4R
Operating voltage	DC (9 ~ 33) V	DC (10 ~ 28) V
Start-up current	≤ 500 µA	
Start-up time	≤ 8 s	
Standby current	≤50 µA	
Alarm current (max)	64 mA (without remote LED) @ 24 V 84 mA (with remote LED) @ 24V	
Maximum permitted current	100 mA without remote LED	
Sampling time	4 s	
Reset voltage	≤ 2.1 V	
Reset time	≤ 3 s	
Alarm response threshold (heat)	59 °C, ordinary Class	
Alarm relay	---	SPST. N/O or N/C. 2.0 A @ DC 30 V / 0.5 A @ AC 125 V
Operating temperature	0 °C ~ +37.8 °C	
Operating humidity	0 % ~ 95 % RH, non-condensing	
Storage temperature	-25 °C ~ +80 °C	
Storage humidity	0 % ~ 98 % RH, non-condensing	
Alarm indicator	Two continuous emitting red LEDs	
Dimensions	ø 100 mm × 58 mm	
Ingress protection rating	IP-43	
Ceiling spacing for heat sensor	≤ 15 m	

Ordering Information

Model	2-Wire	4-Wire	Remote LED Output	Alarm Relay Output	Reed Switch	Reader
NB382SH-2	✓	---	---	---	---	---
NB382SH-2L	✓	---	✓	---	---	---
NB382SH-4	---	✓	---	✓	---	---
NB382SH-2M	✓	---	---	---	✓	---
NB382SH-2LM	✓	---	✓	---	✓	---
NB382SH-4M	---	✓	---	✓	✓	---
NB382SH-2R	✓	---	---	---	---	✓
NB382SH-4R	---	✓	---	✓	---	✓

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NB758-S

Smoke Detector

NB758 conventional photoelectric smoke detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors. Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms.

Key Features

- Advanced algorithms provide advanced detection discrimination
- Easy installation. No programming required
- Sleek low-profile housing design
- Stable photoelectric smoke sensing chamber. No adjustment or replacement required
- High immunity against unwanted alarms
- Dual LEDs for 360° visibility
- Magnet-initiated alarm test function available with some models
- 2-Wire and 4-wire models for DC 12 V or DC 24 V operation
- 4-Wire models include a N/C or N/O alarm relay output

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (9 / 33) V
START-UP CURRENT	170 µA
STANDBY CURRENT	50 µA
ALARM CURRENT	50 mA / 90 mA
RESET VOLTAGE	≤ 1 V
RESET TIME	≤ 3 s
ALARM RESPONSE THRESHOLD	(1.90 ± 0.76) % / foot obscuration)
OPERATING TEMPERATURE	-10 °C ~ +37,8 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
ALARM INDICATOR	Two continuous emitting red LEDs
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 37 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	2-Wire	4-Wire	Remote LED Output	Magnet-Initiated Test
NB758-S2	✓			
NB758-S2M	✓			✓
NB758-S2L	✓		✓	
NB758-S2LM	✓		✓	✓
NB758S-4		✓		
NB758-S4M		✓		✓

NB758-H

Heat Detector

NB758 conventional heat detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors. An electronic thermistor sensor provides sensitive rate-of-rise alarm operation, or fixed-temperature operation when the response threshold value is exceeded..

Key Features

- Advanced algorithms provide excellent detection discrimination
- Easy installation. No programming required
- Sleek low-profile housing design
- Durable sensor. No adjustment or replacement required
- Dual LEDs for 360° visibility
- Magnet-initiated alarm test function available with some models
- 2-Wire and 4-wire models for DC 12 V or DC 24 V operation
- 4-Wire models include a N/C or N/O alarm relay output
- Connects to zone monitor for use with addressable control and indicating equipment

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (9 / 33) V
START-UP CURRENT	170 µA
STANDBY CURRENT	50 µA
ALARM CURRENT	40 mA / 90 mA
RESET VOLTAGE	≤ 1 V
RESET TIME	≤ 3 s
ALARM RESPONSE THRESHOLD	59 °C static temperature, and 11.1°C /min rate-of-rise temperature
OPERATING TEMPERATURE	-10 °C ~ +37,8 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
ALARM INDICATOR	Two continuous emitting red LEDs
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 37 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	2-Wire	4-Wire	Remote LED Output	Magnet-Initiated Test
NB758-H2	✓			
NB758-H2M	✓			✓
NB758-H2L	✓		✓	
NB758-H2LM	✓		✓	✓
NB758-H4		✓		
NB758-H4M		✓		✓

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NB758-SH

Smoke/Heat Detector

NB758 conventional photoelectric smoke/heat detectors are state-of-the-art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors. Advanced electronics in conjunction with a photoelectric smoke sensing chamber and an electronic thermistor provide early detection of fire and high immunity against unwanted alarms. The heat sensor provides fixed- temperature operation when the response threshold value is exceeded.

Key Features

- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena.
- Advanced algorithms provide excellent detection discrimination
- Ideal for both fast-flaming and slow smouldering fires
- High immunity against unwanted alarms
- Stable smoke sensing chamber. No adjustment or replacement required
- Easy installation. No programming required
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- Magnet-initiated alarm test function available with some models
- 2-Wire and 4-wire models for DC 12 V or DC 24 V operation
- 4-Wire models include a N/C or N/O alarm relay output

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (9 / 33) V
START-UP CURRENT	170 µA
STANDBY CURRENT	50 µA
ALARM CURRENT	40 mA / 90 mA
RESET VOLTAGE	≤ 1 V
RESET TIME	≤ 3 s
ALARM RESPONSE THRESHOLD (SMOKE)	(1.90 ± 0.76) % / foot obscuration)
ALARM RESPONSE THRESHOLD (HEAT)	59 °C static temperature, and 11.1°C /min rate-of-rise temperature
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
ALARM INDICATOR	Two continuous emitting red LEDs
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 50 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	2-Wire	4-Wire	Remote LED Output	Magnet-Initiated Test
NB758-SH2	✓			
NB758-SH2M	✓			✓
NB758-SH2L	✓		✓	
NB758-SH2LM	✓		✓	✓
NB758SH-4		✓		
NB758-SH4M		✓		✓

NB983

Gas Detector (CO, natural gas, propane gas)

NB983 conventional gas detectors are state-of-the-art detectors suitable for connection to 4-wire conventional fire detection control and indicating equipment, or to 4-wire addressable fire detection control and indicating equipment that can accept conventional type detectors. Advanced electronics in conjunction with a semiconductor gas sensor provide early detection of carbon monoxide, natural gas or propane gases and high immunity against unwanted alarms.

Key Features

- Advanced algorithms provide advanced detection discrimination
- Choice of Carbon monoxide, natural gas or propane gases detection available
- Japan-made highly reliable stable gas sensor. No adjustment or replacement required
- High immunity against unwanted alarms
- 4-wire system operation
- Detector auto-reset once gas levels fall below alarm threshold levels
- Internal reed switch for hush and test functions
- DC 24 V operation
- DC 12 V optional operation available for CO detector
- N/C or N/O alarm relay output
- 70 dB internal sounder
- Easy installation. No programming required
- Connects to zone monitor for use with addressable control and indicating equipment

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (12 / 24) V	
START-UP CURRENT	120 µA	
STANDBY CURRENT	50 µA	
ALARM CURRENT (MAX)	20 mA / 45 mA	
RESET VOLTAGE	≤ 1 V	
RESET TIME	≤ 5 s	
CARBON MONOXIDE ALARM RESPONSE THRESHOLD	UL 70 ppm for 60 min ~ 240 min 150 ppm for 10 min ~ 50 min 400 ppm for 4 min ~ 15 min	EN 50 ppm for 60 min ~ 90 min 100 ppm for 10 min ~ 40 min 300 ppm for < 3 min
PROPANE ALARM RESPONSE THRESHOLD	Propane Alarm Response Threshold ≤ 25% LEL	
NATURAL GAS ALARM RESPONSE THRESH.	Natural Gas Alarm Response Threshold≤ 25% LEL	
OPERATING TEMPERATURE	-10 °C ~ +50 °C	
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing	
ALARM INDICATOR	Two continuous emitting red LEDs	
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 37 mm	
INGRESS PROTECTION RATING	IP-32	

ORDER CODE	Nominal Operating Voltage	Gas
NB983-CO-12	DC 12 V	CO
NB983-CO-24	DC 24 V	CO
NB983-LP	DC 24 V	C_3H_8
NB983-NG	DC 24 V	CH_4

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NB701

AC/DC Gas Alarm

UL 1484
UL 2075

NB701 AC/DC Catalytic gas alarms are mains powered combustible gas detectors that can be powered directly from the mains supply (with AC adaptor enclosed) or from a DC 12/24 V supply (such as a security system). Advanced electronics, in conjunction with a catalytic gas sensor, provide accurate early detection of natural gas or propane gas and high immunity against unwanted alarms.

The NB701 range of gas alarms provide home owners and installers with an easy-to-install, economical solution for life safety and property protection applications.

Key Features

- Advanced algorithms provide advanced detection discrimination
- Highly accurate detection of LNG and LPG
- Stable gas sensing chamber. No adjustment or replacement required
- High immunity against unwanted alarms
- Dual function action button to temporarily silence unwanted alarms (Hush), and to verify battery and alarm operation (Test)
- Low power consumption
- N/C or N/O alarm and trouble relay output models available
- DC12V/24V operation without adjustment
- Optional 110V/220V AC adaptor interface available
- Loud alarm sounder output > 85dB @ 3m
- Detector trouble alert
- 5-year End-of-life alert
- Separate indicators for Power, Alarm and Service
- Easy installation. No programming required. Low maintenance

TECHNICAL SPECIFICATIONS

POWER SOURCE	DC 12-28V (w/o Adapter) / AC120V~240V (with Adapter)	
QUIESCENT CURRENT	Residential	max 43 mA @ DC 12 V max 25 mA @ DC 24 V
	Conventional	max 73 mA @ DC 12 V max 53 mA @ DC 24 V
ALARM CURRENT (MAX)	Residential	max 80 mA @ DC 12 V max 60 mA @ DC 24 V
	Conventional	max 110 mA @ DC 12 V max 90 mA @ DC 24 V
SENSING CELL	Catalytic bead sensor	
ALARM RESPONSE THRESHOLD	<25%LEL	
ALARM & TROUBLE RELAY OUTPUTS	Alarm1: form A (N/O), Alarm2: form A (N/O) or B (N/C) adjustable. Trouble (If have): form A (N/O) or B (N/C) adjustable. All contacts: 1.0 A @ DC 30 V / 0.5 A @ AC 125 V	
OPERATING TEMPERATURE	0 °C ~ +50 °C	
OPERATING HUMIDITY	15% - 90% RH, non-condensing	
ALARM SOUNDER OUTPUT	≥ 85 dB @ 3 m	
LIFE EXPECTANCY	5 Years	
DIMENSIONS	Ø 102 mm × 40,5 mm	

NB701

AC/DC Gas Alarm

ORDER CODE	Propane Gas Detection	Natural Gas Detection	AC 110/220 V Operating Voltage	DC 12/24 V Operating Voltage	Alarm Relay Output	Trouble Relay Output
NB701-GR2-U	✓	✓		✓	✓	✓
NB701-GR-U	✓	✓		✓	✓	
NB701-G-U	✓	✓		✓		
NB701-NR2-U		✓		✓	✓	✓
NB701-NR-U		✓		✓	✓	
NB701-N-U		✓		✓		
NB701-GR2-AU	✓	✓	✓		✓	✓
NB701-GR-AU	✓	✓	✓		✓	
NB701-G-AU	✓	✓	✓			
NB701-NR2-AU		✓	✓		✓	✓
NB701-NR-AU		✓	✓		✓	
NB701-N-AU		✓	✓			

NB701-FB NB701 Flush mount base

APPROVALS	UL 2075 a)	UL1484 b)
NB701-GR2-U	✓	
NB701-GR-U	✓	
NB701-G-U	✓	
NB701-NR2-U	✓	
NB701-NR-U	✓	
NB701-N-U	✓	
NB701-GR2-AU		✓
NB701-GR-AU		✓
NB701-G-AU		✓
NB701-NR2-AU		✓
NB701-NR-AU		✓
NB701-N-AU		✓

a) UL 2075 Gas Vapor Detectors and Sensors
b) UL 1484 Residential Gas Detectors

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NB702

Conventional CO detector

NB702 carbon monoxide gas detectors are powered from a DC 12 V or DC 24 V power supply (such as from a security system) and alert building occupants to hazardous levels of carbon monoxide gas. Advanced electronics, in conjunction with an electrochemical gas sensor, provides early detection of dangerous levels of carbon monoxide gas with a high degree of immunity against unwanted alarms. The NB702 CO gas detectors provide home owners and installers with an easy-to-install, premium solution for life safety applications.

UL 2075

Features

- The NB702 CO gas detectors include a wide range of standard features to suit many applications.
- Advanced algorithms provide advanced detection discrimination
- Attractive housing design
- Stable gas sensing chamber, with automatic sensor adjustment
- High immunity against unwanted alarms
- Loud 85 dB internal alarm sounder
- Dual function action button to temporarily silence unwanted alarms (Hush), and to verify alarm operation (Test)
- Surface-mount device (SMD) circuit board design
- Visual and audible indicator for Normal, Alarm, Service and End-of-life
- Low power consumption
- DC 12/24 V operation is ideal for connection to 4-wire security systems
- Easy installation. No programming required
- Low maintenance
- 10-year end-of-life factory-programmable timer alerts owner to replace the unit

Specifications

Operating voltage Sensing cell	DC 10 V ~ DC 32 V
Quiescent current	Electro-chemical
Test Alarm Current (max)	20 mA @ DC 12 V 12 mA @ DC 24 V
Test Alarm Current (max)	55 mA @ DC 12 V 30 mA @ DC 24 V
Alarm response threshold [a]	60 μL/L for 60 min ~ 240 min 150 μL/L for 10 min ~ 50 min 400 μL/L for 4 min ~ 15 min
Start-up indicator	Red indicator and green indicator light for 60 s.
Normal condition visual indicator	Green LED flashes once every 60 s
Alarm condition indicator	Red indicator steady on, and 4 audible beeps followed by 6 s pause
End-of-life condition indicator	Red indicator with 2 flashes every 60 s, and 2 audible beeps every 60 s
Sounder output	≥ 85 dB @ 3 m
Alarm and Fault relay	DPDT. N/O or N/C. 1.0 A @ DC 30 V / 0.5 A @ AC 125 V
Operating temperature	0 °C ~ +40 °C
Operating humidity	15 % ~ 90 % RH, non- condensing
Storage temperature	-25 °C ~ +80 °C
Storage humidity	0 % ~ 98 % RH, non- condensing
Dimensions (d x h)	ø 102 x 52 mm
Ingress protection rating	IP-23

[a] Complies with UL 2034.

Accessories

The following accessories are compatible with NB702 CO gas detector.

SKU	NB701-FB	Description	NB701 Flush mount base

Ordering information

	DC 12/24 V Operating Voltage	Alarm Relay Output	Trouble Relay Output
NB702CO-R2	✓	✓	✓

NB240 CO-E

CO Alarm

240CO-E carbon monoxide alarms are powered from a DC 10 V -32 V external power supply (such as from a fire or security panel) and alert building occupants to hazardous levels of carbon monoxide.

Advanced electronics in conjunction with an electrochemical sensor provides early detection of dangerous levels of carbon monoxide, and high immunity against unwanted alarms.ng chamber provide early detection and immunity against unwanted alarms.

UL 2075

Intertek

Key Features

- Advanced algorithms provide advanced detection discrimination
- Attractive housing design Low power consumption.
- Japan-made highly reliable stable CO sensor, with automatic adjustment
- High immunity against unwanted alarms
- Loud 85 dB internal alarm sounder
- Dual function action button to temporarily silence unwanted alarms (Hush), and to verify alarm operation (Test)
- Visual and audible indicator for Normal, Alarm, Service and End-of-life
- DC 12/24 V operation is ideal for connection to 4-wire security systems
- Easy installation. No programming required
- 5-year end-of-life factory-programmable timer alerts owner to replace the unit

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC 10 / DC 32 V
SENSING CELL	Electro-chemical
QUIESCENT CURRENT	30 mA @ DC 12 V / 15 mA @ DC 24 V
ALARM CURRENT (MAX)	75 mA
ALARM RESPONSE THRESHOLD [a]	60 ppm for 60 min ~ 240 min 150 ppm for 10 min ~ 50 min 400 ppm for 4 min ~ 15 min
START-UP INDICATOR	Green indicator, with 1 s flash for 45 s duration
NORMAL CONDITION VISUAL INDICATOR	Continuous green
ALARM CONDITION INDICATOR	Continuous red indicator, and 4 audible beeps followed by 5 sec pause
SERVICE CONDITION INDICATOR	Yellow indicator with 2 flashes every 45 s, and 1 audible beep every 45 s
END-OF-LIFE CONDITION INDICATOR	Yellow indicator with 2 flashes every 45 s, and 2 audible beep every 45 s
SOUNDER OUTPUT	≥ 85 dB @ 3 m
ALARM AND FAULT RELAY	DPDT. N/O or N/C. 1.0 A @ DC 30 V 0.5 A @ AC 125 V
OPERATING TEMPERATURE	0 °C ~ +38 °C
OPERATING HUMIDITY	15 % ~ 90 % RH, non-condensing
DIMENSIONS (h x w x d)	(74 x 150 x 35) mm

ORDER CODE

240CO-E

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NB332N

UV Flame Detector

The NB332N conventional ultra-violet flame detectors are suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors.

Key Features

- High sensitivity UVtron sensor tube technology
- Uses digital IC for stable and reliable operation
- High immunity to electrical noise and RF interference
- Polarity insensitive
- Fast response time
- Wide field of view
- Surface-mount device (SMD) circuit board design
- Solar blind, with an electronic filter to eliminate unwanted alarms from naturally occurring phenomena
- Remote LED
- No programming required

NB332N

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (8 / 34) V
AVERAGE QUIESCENT CURRENT @ DC 24 V	150 µA
ALARM CURRENT	40 mA / 80 mA
FIELD OF VIEW	120° cone
UV SENSITIVITY	(185 / 260) nm
ALARM RESPONSE TYPICAL	30 mm gas flame at 4 m within 10 s
ALARM INDICATOR	Continuous emitting red LED
OPERATING TEMPERATURE	0 °C ~ +45 °C
OPERATING HUMIDITY	0 % ~ 80 % RH, non-condensing
ALARM INDICATOR	Two continuous emitting red LEDs
DIMENSIONS	Ø 98mm × 37 mm

ORDER CODE	2-Wire	4-Wire	Remote Output	Relay Output
NB332N	✓			
NB332N-2L	✓		✓	
NB332N-4		✓		✓

NB606

Tobacco Smoke Detector

NB606 conventional photoelectric tobacco smoke detectors are state-of-the- art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors. The NB606 range of tobacco smoke detectors have been specially designed to respond to the characteristics of tobacco smoke. Tobacco smoke detectors provide specific detection capability and should not be used as a substitute for broad-spectrum smoke detectors required by regulations. Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection and immunity against unwanted alarms.

Key Features

- Advanced algorithms provide advanced detection discrimination of smoke from cigarettes, cigars and pipe tobacco
- Easy installation. No programming required. Dual LEDs for 360° visibility.
- Sleek low-profile housing design. Magnet-initiated alarm test function.
- Stable photoelectric smoke sensing chamber. No adjustment or replacement required. Auto-reset function available with some models
- High immunity against unwanted alarms.
- 2-Wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-Wire models include a N/C or N/O alarm relay output
- Connects to zone monitor for use with addressable control and indicating equipment

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (9 / 33) V
START-UP CURRENT	≤ 140 µA
STANDBY CURRENT	≤ 50 µA
ALARM CURRENT	40 mA / 90 mA
RESET VOLTAGE	≤ 1 V
RESET TIME	≤ 3 s
ALARM RESPONSE THRESHOLD	0.01 dB/m ~ 0.03 dB/m
OPERATING TEMPERATURE	-4 °C ~ +40 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
ALARM INDICATOR	Two continuous emitting red LEDs
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 37 mm
INGRESS PROTECTION RATING	IP-42

ORDER CODE	2-Wire	4-Wire	Remote LED Output	Magnet-Initiated Test	Auto Reset
NB606-2	✓				
NB606-2M	✓			✓	
NB606-2-AR	✓				✓
NB606-2M-AR	✓			✓	✓
NB606-2L	✓		✓		
NB606-2LM	✓		✓	✓	
NB606-2L-AR	✓		✓		✓
NB606-2LM-AR	✓		✓	✓	✓
NB606-4		✓			
NB606-4M		✓		✓	
NB606-4-AR		✓			✓
NB606-4M-AR		✓		✓	✓

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NB525

Manual Call Point

EN-54

EN54-11

NB525 manual call points are suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type devices.

All models have an integral alarm indicator that illuminates when the manual call point has been activated. Resetting the manual call point is achieved by rotating a key through the front of the unit to place the operating face into the quiescent position. The NB525 manual call point is available for both 2-wire and 4-wire fire detection and alarm systems.

Key Features

- Clear plastic flap provides two-stage operation to reduce accidental activation
- Pressure activated displacement element provides a safe user experience
- Integral alarm indicator to show activation
- Resettable with simple key operation
- Suitable for indoor use. Easy installation. Low maintenance.
- DC 12 V and DC 24 V operation
- Compatible with 2-Wire and 4-Wire fire detection and alarm systems
- 4-Wire model available with a N/C or N/O alarm relay output option to drive 2 Acurrent loads
- 4-wire models include a mechanically operated micro-switch output option to drivel A current loads
- Jumper used to select alarm impedance value
- Zero current load in quiescent condition

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (12 / 33) V
STANDBY CURRENT	0 A
MICRO-SWITCH OUTPUT CURRENT RATING	1 A @ DC 30 V or 2 A @ AC 125 V
RELAY OUTPUT CURRENT RATING	2 A @ DC 30 V or 3 A @ AC 125 V
OPERATION TYPE	Direct Operation (type A)[a]
TERMINAL WIRING	0.4 mm^2 / 2.5 mm^2
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
DIMENSIONS (w x h x d)	(92 x 92 48) mm
INGRESS PROTECTION RATING	IP-23

[a] As defined in EN 54-11: “a manual call point in which the change to the alarm condition is automatic (i.e. without the need for further manual action when the frangible element is broken or displaced”.

ORDER CODE	2-Wire	4-Wire	Micro-switch Output	Relay Output
NB525	✓			
NB525-S	✓	✓	✓	
NB525-4		✓		✓

NB570

Audio/Visual Alarm Device

NB570 audio/visual alarm devices are suitable for connection to 2-wire and 4-wire fire detection and alarm systems. NB570 operate with both addressable and conventional (non-addressable) fire detection control and indicating equipment.
Activation is initiated upon connection of the operating voltage, allowing connection to either a switched supply or via an addressable module.

Key Features

- Operates when the supply voltage is connected to the device
- Compatible with relay outputs from control and indicating equipment, or from an output module connected to an addressable alarm circuit wiring
- DC 24 V operation
- 2-wire or 4-wire operation
- Loud sounder output of 90 dB at 3 m
- Long-life strobe light
- Zero current load in quiescent condition
- Easy installation

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (12 / 26) V
STANDBY CURRENT	0 A
ALARM CURRENT	20 mA / 120 mA
STROBE LIGHT LIFE	≥ 30,000 flashes
STROBE LIGHT FLASH RATE	≤ 2 s
TERMINAL WIRING	0.4 mm^2 ~ 2.5 mm^2
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
DIMENSIONS (w x h x d)	(120 x 80 x 30) mm
INGRESS PROTECTION RATING	IP-23

ORDER CODE	Sounder	Strobe Light
NB570-S	✓	
NB570-L		✓
NB570-SL	✓	✓

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Notification Appliances

Conventional (non-addressable) Multi-Candela

UL 464
UL 1638

Multi-Candela Notification appliances provide visual and audio or visual only warning indication for indoor use.
When the Notification Appliance emits light or sound, it indicates the possibility of an emergency situation that requires the immediate attention of all occupants.
Strobe level for 15, 30, 75, or 110 candelas can be manually configured by a selection switch located on the back of strobe assembly.
LED is used on this new series, which reduce the alarm current at least by half.
The Multi-tone has 7 sound patterns to be selected.
Chime has adjustable sound level and has a chime tone adjustable from 750 to 1250 Hz.
The appliances are not to be painted or the finish altered in any way.

Key Features

Multi-Candela Notification appliances are available in a number of models, with a range of features.

- Operates when the forward voltage is connected to the appliance.
- The strobe will produce 1 flash per second, it will be synchronized when used with Wizmart Synchronized Function Module or specified FACP signal pattern.
- DC 24 V operation
- LED light source
- Low alarm current
- Selectable light output
- Selectable sound pattern output
- Adjustable sound level
- Loud sound output
- Long-life strobe light
- Support different mounting arrangement
- Easy installation
- Low maintenance

Approvals

The following accessories are compatible with multi- candela notification appliances.

Description	Part number	Datasheet
Synchronized Function Module	SFM	31-0110

Accessories

The Multi-candela notification appliances have the following approvals.

	UL 464 [a]	UL 1638 [b]
Wall Mount Strobe	-	✓
Wall Mount Chime/Strobe	✓	✓
Wall Mount Multi- tone/Strobe	✓	✓
Ceiling Mount Strobe	-	✓
Ceiling Mount Chime/Strobe	✓	✓
Ceiling Mount Multi-tone Strobe	✓	✓

[a] UL 464 Audible Signal Appliances
[b] UL 1638 Visible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories

Notification Appliances

Conventional (non-addressable) Multi-Candela

Specifications

		Wall Mount Strobe	Wall Mount Chime / Strobe	Wall Mount Multi- tone / Strobe	Ceiling Mount Strobe	Ceiling Mount Chime / Strobe	Ceiling Mount Multi- tone / Strobe
Operating voltage		DC (16 ~ 33) V					
Nominal Voltage		Regulated 24 VDC					
Reverse current		40 uA					
Alarm current @ 24v	15 cd	95 mA					
	30 cd	115 mA					
	75 cd	135 mA					
	110 cd	145 mA					
Sounder output		---	54.5 dB @ 3 m	≥75 dB @ 3 m	---	54.5 dB @ 3 m	≥75 dB @ 3 m
Strobe light flash frequency		1 Hz					
Terminal wiring		18AWG ~ 12AWG (0.82 mm2 ~3.31 mm2)					
Temperature Range		0 °C ~ +49 °C					
Humidity Range		10 % ~ 93 % RH, non-condensing at 38 °C					
Dimensions (h x w x d)		130 x 130 x54 mm					
Ingress protection rating		IP - 22					

Ordering Information

		Wall Mount	Ceiling Mount	Strobe	Chime	Multi-tone
NB350	Wall Mount Strobe	✓	---	✓	---	---
NB351	Wall Mount Chime/Strobe	✓	---	✓	✓	---
NB352	Wall Mount Multi-tone / Strobe	✓	---	✓	---	✓
NB353	Ceiling Mount Strobe	---	✓	✓		---
NB354	Ceiling Mount Chime / Strobe	---	✓	✓	✓	---
NB355	Ceiling Mount Multi-tone Strobe	---	✓	✓	---	✓

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Synchronized Function Module

SFM for Fire Alarm Control Systems

The **Synchronized Function Module (SFM)** is designed to allow Wizmart Non-Addressable Horns, Strobes, and Audible/Visible units to be put on the same Notification Appliance Circuit (NAC). This allows the silencing of the Horns without deactivation of the Strobes. The SFM connects to and derives power from a reverse polarity Notification Appliance Circuit (NAC). It activates the visible appliances when the NAC is in the forward polarity (alarm state), and uses energy from this circuit to power the attached Non-Addressable (or other) notification appliances.
When the NAC is in the reverse polarity, or supervision state, the SFM is off, and connects the NAC to the units wiring for traditional appliance supervision.
The SFM uses a 2nd circuit from the panel to control operation of audible appliances connected to the SFM output. The SFM also supports Class A wiring configurations, and synchronization across multiple Non- Addressable NACs.

Key Features

The SFM requires a signal from FACP notification appliance circuits to control Horns and strobes on a Non- Addressable NAC. The SFM uses these circuits to power attached Notification Appliances, and control Horn and Strobe operation. A once-a-second pulse on the NAC output synchronizes the flashing of Strobes. The Horn appliances on SFM enabled devices are controlled via SFM signals transmitted from the SFM output during certain strobe synchronization pulses. The SFM have three signaling output outputs:

- DC signaling
- Sync pulse only,
- Sync for multi-tone applications.

- **DC Input**

  The DC Input connection on the SFM provides power for this device and attached NAC appliances. The DC input must be driven by a fully functioning reverse polarity non-coded NAC output from the FACP or DC power. The module is not powered when this circuit is in the reverse polarity state, if powered by the FACP, supervision of SFM wiring is performed; if powered by external DC power, SFM rather than the FACP supervise the SFM wiring.

- **Horn Input**

  The Horn input is driven by a non-coded FACP output. A positive voltage commands the horn appliances attached to the module's NAC OUT wiring to operate. A reverse polarity voltage, or a zero voltage condition, will turns the horn appliances off.

- **Sync Input**

  Synchronous signal input port, if the module is working in slave mode, its NAC OUT port is synchronization with SYNC IN port. Maximum 8- SFMs connected together for multiple synchronized operation in same zone.

- **Multi-Sync Feature**

  Groups of SFMs can synchronize appliances across multiple NACs. Each SFM has a Multi-Sync port with input and an output connection. These ports can be daisy-chained together. The first SFM in the chain is set via DIP switch to be the Multi-Sync "master", it generates the sync signals. The other SFMs have their DIP switches set for slave operation: they follow the sync signals.

- **Supervision**

  Supervision of SFM wiring is performed by the attached FACP (if powered by FACP), or by itself (if powered by external DC supply). The NAC output from the panel connected to the NAC IN monitors the wiring through the SFM and out to the EOL resistor after the last appliance on the Non-Addressable NAC. If the SFW is powered by external power supply, SFM will monitor the wiring through the EOL resistor after the last appliance, which will not be transmitted to FACP.

Synchronized Function Module

SFM for Fire Alarm Control Systems

- **Class A**

  The SFM supports Class A wire run configurations extending from the module, through the appliances, and back to the EOL resistor at the SFM Class A. The EOLR at the Class A terminal is internal to the SFM.

Accessories

The following accessories are compatible with Synchronized Function Module:

Description	Part number	Datasheet
Multi-Candela Notification Appliances	Multi- Candela	31-0106
Chime Notification Appliances	Chime	31-0108
Multi-tone Horn Notification Appliances	Multi-tone	31-0107
Mini Horn Notification Appliances	Mini Horn	31-0109

Specifications

Input voltage	DC (16 ~ 33) V
NAC Output	16 - 33v
Nominal Voltage	Regulated 24 VDC
Positive Polarity Current consumption	35mA @ 33V
Circuit Load	4.0 Amp maximum
Terminal wiring	18AWG ~ 12AWG (0.82 mm² ~ 3.31 mm²)
Temperature Range	0 °C ~ +49 °C
Humidity Range	10 % ~ 93 % RH, non-condensing at 38 °C
Dimensions (h x w x d)	114 x 114 x 29 mm
Ingress protection rating	IP - 22
Mounting Box	4 x 4 inch Double Gang Box

Table 1. Synchronized Function Module DIP Switch Settings

DIP Switch S 1				Audible Appliances "ON" Sound Code Output	Multi-Sync Master Code	Optional Signaling Output
Position 1	Position 2	Position 3	Position 4			
OFF	OFF	---	---	March Time	---	---
OFF	ON	---	---	Temporal 3	---	---
ON	OFF	---	---	Continue	---	---
ON	ON	---	---	Reserved	---	---
---	---	OFF	---	---	Master	---
---	---	ON	---	---	Slave	---
---	---	---	ON	---	---	DC Signaling only
---	---	---	OFF	---	---	Command & Sync pulses

Ordering Information

Synchronized Function Module: can be synchronized with strobe or sounder circuits.

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NB345

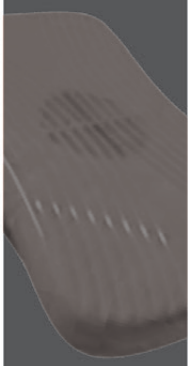
Conventional Mini Horn

The **NB-345 Conventional Mini-Horn** is a two-wire appliance that operates on a FACP (fire alarm control panel) or **NB320** (Synchronized Function Module) to provide audible indication of an alarm condition. When the notification appliance emits sound, it indicates the possibility of an emergency situation that requires your immediate attention. The appliances are not to be painted or the finish altered in anyway.

Listed

Key Features

- Operates when the forward voltage is connected to the appliance
- The **NB-345 Conventional Mini-Horn** can be synchronized by using Wizmart's **NB320 Synchronized Function Module** (configured by its DIP selection switches)
- DC 24 V operation
- Adjustable sound level
- Adjustable sound pattern
- Loud sound output
- Low maintenance
- Easy installation



NB345

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	16 ~ 33 V DC
REVERSE CURRENT	40 μA
ALARM CURRENT @ 24V DC	30 mA
SOUNDER OUTPUT	75dB @ 3m
SOUND TYPE	Horn, Ca Horn
TERMINAL WIRING	18AWG ~ 12AWG (0.82 mm^2 ~3.31 mm^2)
OPERATING TEMPERATURE	0 °C ~ +49 °C
OPERATING HUMIDITY	10 % ~ 93 % RH, non-condensing at 38 °C
DIMENSIONS (w x h x d)	(115.4 x 75.8 x 37.7) mm
INGRESS PROTECTION RATING	IP-22

ORDER CODE

NB345-R	Conventional Mini-Horn - RED
NB345-W	Conventional Mini-Horn - WHITE

NB103

Sounder Base

NB103 sounder base provides audible warning for addressable and conventional (non-addressable) detectors when the detector connected to the base enters the alarm condition. The sounder is used to alert building occupants to a fire alarm and assist with the safe management of the fire alarm condition.

No adjustments are required and the base is easily wired to detectors that have a remote indicator output function.

Key Features

- Compatible with 2-wire fire detection and alarm systems
- Easy installation with no adjustments required
- Self-contained within the detector base. Separate enclosure is not required

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 / 28) V
STARTUP CURRENT	≤ 80 μA
STANDBY CURRENT	≤ 30 μA
ALARM CURRENT	15 mA
SOUNDER OUTPUT LEVEL	≥ 85 dB @ 3 m
TERMINAL WIRING	0.4 mm^2 / 2.5 mm^2
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
DIMENSIONS	Ø 152mm × 19 mm

ORDER CODE

NB103

NB103

Recessed Base Mounting Ring

The recessed base mounting ring can be used to install a detector and its base with the minimum intrusion into the space.

The recessed mounting ring includes spring-loaded clips that secure the ring in place. The recessed mounting ring is not suitable for use with solid ceilings (such as concrete slabs), and may not be permitted by some installation codes and standards. Checking with local requirements is necessary.

ORDER CODE	Description	Diameter	Height
775912	27mm recessed mouting ring	131mm	3mm

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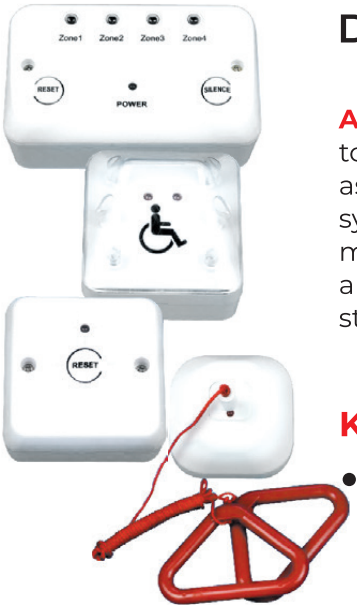
ADA100

Disabled Persons Response Alarm



ADA-100 disabled persons' response alarm systems provide a complete solution to allow disabled people to alert others of the need for assistance. It can operate as a stand-alone system or be connected to security or building management systems. The ADA-100 disabled persons' response alarms comes with a dedicated multi-zone control unit that provides monitoring of input devices and outputs to alerting devices and security systems. The controller provides audible and visual status monitoring, and control functions to mute and reset alarms.

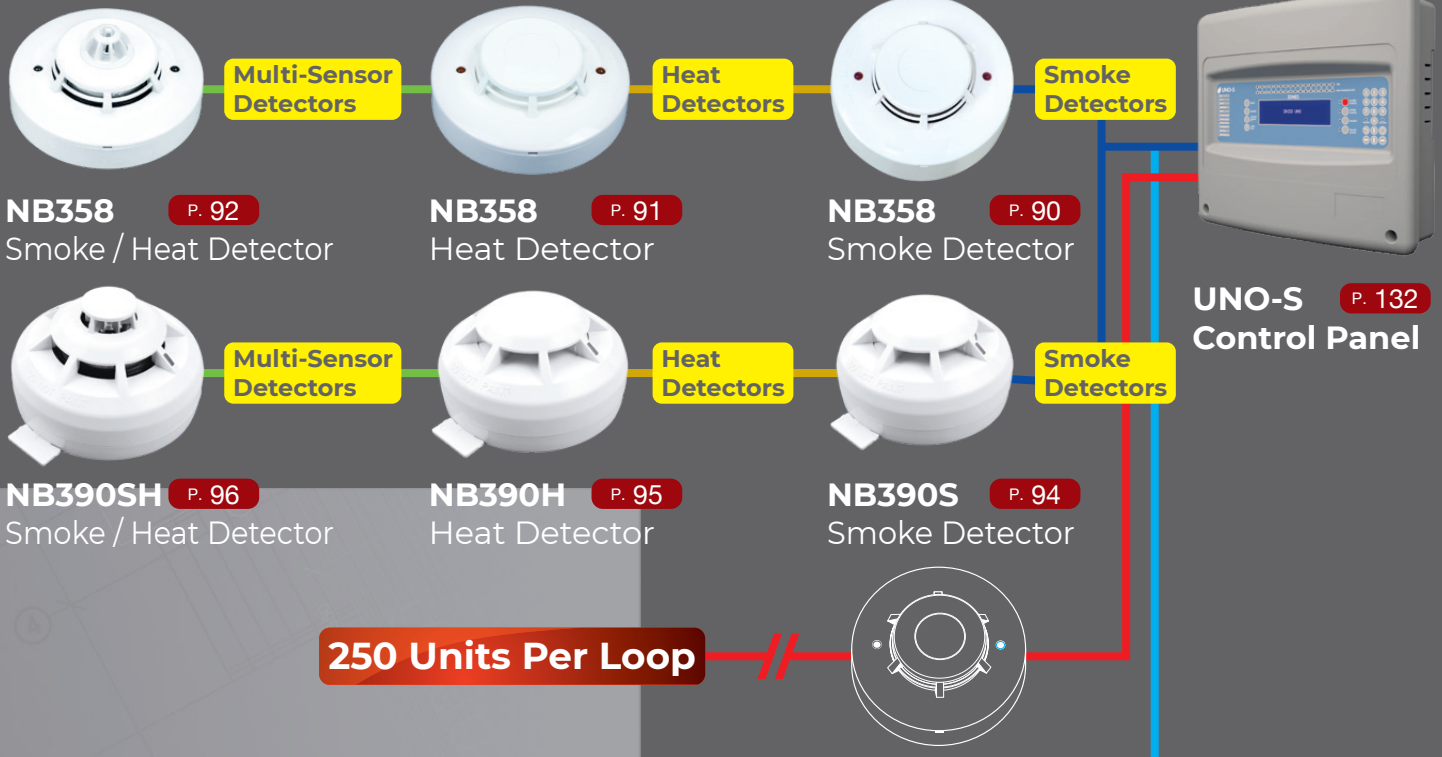
Key Features

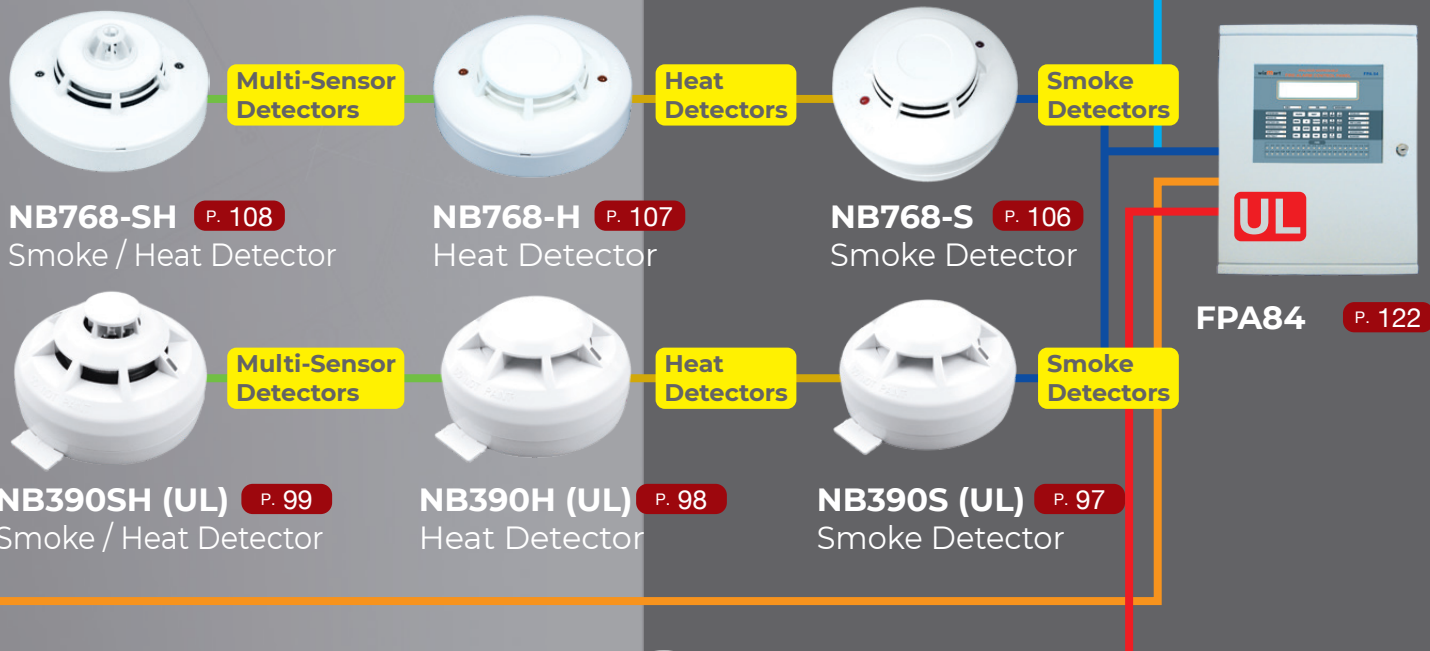
- Controller includes:
  - Four separate input zones with individual indicators
  - Internal alerting sounder
  - Mute control
  - Reset control
  - Relay interface to security or building management systems
- Separate personal call control with indicator to show the call has been received by the controller
- Separate remote indicator unit to alert others of the call request
- Separate remote reset button for installation within the risk area
- Simple 3-wire operation for field devices
- DC 12 V operation
- Optional battery back-up
- Compatible with 2-wire and 4-wire security systems
- Low quiescent current

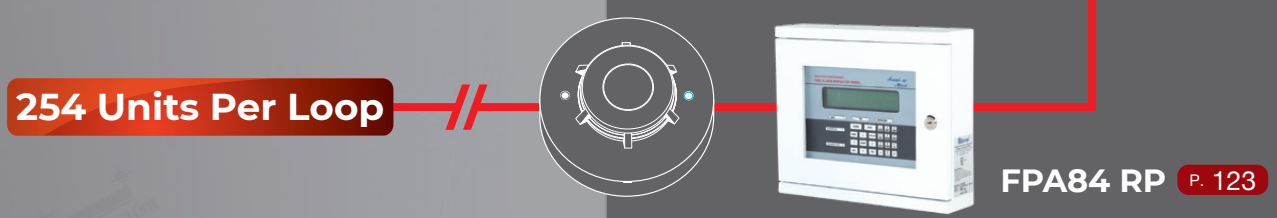
ORDER CODE	Description
ADA100-ECU	Control Unit
ADA100-PC	Personal Call Control
ADA100-ODI	Remote Indicator
ADA100-RB	Remote Reset Control

Addressable System

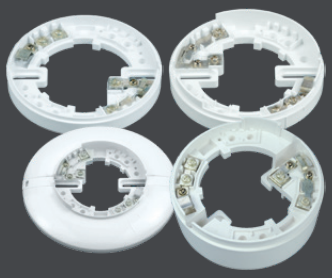
Wizmart addressable devices are microprocessor controlled state-of-the-art devices suitable for connection to addressable fire detection control and indicating equipment. The range includes detectors, modules and manual call points
Up to 254 devices can be connected to each alarm zone loop, providing a flexible alarm zone configuration solution to suit most building configuration requirements.
The Wizmart range of addressable devices provides fire detection and alarm system designers with premium products for life safety and property protection applications.



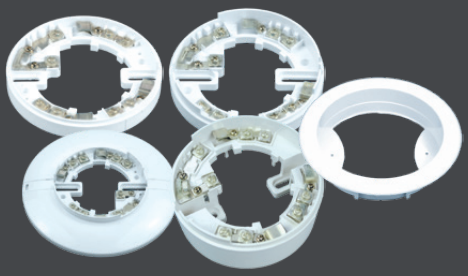




Detector Bases



4-terminal Passive Bases P. 119



8-terminal Passive Bases P. 119

Recessed Base Mounting Ring P. 83

NB103 P. 83
Sounder Base

NB760 P. 120
Isolator Base

Remote Indicator

NB106 P. 118
Remote Indicator

Manual Call Points

NB765 P. 112
Manual Call Point

Modules

NB762 P. 114
Dual Input/output Module

NB761 P. 113
Input Module

NB764 P. 116
Output Module

NB763 P. 115
Alarm Zone Module

NB774 P. 111
Output Mini Module

NB773 P. 110
Alarm Zone Mini Module

Programming Tool

AP100 P. 109
Address Programmer

Multi-Sensor Detectors

NB392-SH P. 104
Smoke / Heat Detector

Heat Detectors

NB392-H P. 102
Heat Detector

Smoke Detectors

NB392-S P. 100
Smoke Detector

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NB358

Smoke Detector

EN-54

EN54-7

NB358 analogue addressable photoelectric smoke detectors are microprocessor controlled state-of-the-art detectors suitable for connection to addressable fire detection control and indicating equipment.
Up to 126 detectors can be connected to each alarm zone loop. Detector addressing is electronically programmed into the detector at the time of installation.

Key Features

- Advanced algorithms provide analogue detection discrimination
- Stable photoelectric smoke sensing chamber. No adjustment or replacement required
- High immunity against unwanted alarms
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- 2-wire connection
- DC 24 V operation
- Easy installation with simple electronic address programming
- Alternative DIP switch addressing option available
- Available with 126 usable detector address settings per loop when using either WizPro0 or WizPro1 communications protocol
- Optional remote LED output

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
START-UP CURRENT	≤ 800 μA
STANDBY CURRENT	≤ 500 μA
ALARM CURRENT (MAX)	5 mA @ DC 24 V
RESET VOLTAGE	≤ 5 V
RESET TIME	≤ 30 s
ALARM RESPONSE THRESHOLD	0.09 dB/m ~ 0.14 dB/m
REMOTE LED OUTPUT CURRENT (MAX)	2 mA
USABLE ADDRESSES PER ALARM ZONE CIRCUIT	126
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
ALARM INDICATOR	Two continuous emitting red LEDs
DIMENSIONS (EXCLUDING CONTACTS)	ø 100 mm × 35 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	Electronic Addressing	DIP Switch Addressing	Remote LED Output
NB358A-S	✓		
NB358A-SL	✓		✓
NB358D-S		✓	
NB358D-SL		✓	✓

NB358

Heat Detector

NB358 analogue addressable heat detectors are microprocessor controlled state-of-the-art analogue addressable detectors suitable for connection to addressable fire detection control and indicating equipment.
Up to 126 detectors can be connected to each alarm zone loop. Detector addressing is electronically programmed into the detector at the time of installation.
An electronic thermistor sensor provides sensitive rate-of-rise alarm operation, or fixed-temperature operation when the response threshold value is exceeded.

EN-54

EN54-5

Key Features

- Advanced algorithms provide analogue detection discrimination
- Durable sensor. No adjustment or replacement required
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- 2-wire connection
- Easy installation with simple electronic address programming
- Alternative DIP switch addressing option available
- Available with 126 usable detector address settings per loop when using either WizPro0 or WizPro1 communications protocol
- Optional remote LED output

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
START-UP CURRENT	≤ 800 µA
STANDBY CURRENT	≤ 500 µA
ALARM CURRENT (MAX)	5 mA @ DC 24 V
RESET VOLTAGE	≤ 5 V
RESET TIME	≤ 30 s
ALARM RESPONSE THRESHOLD	59 °C
REMOTE LED OUTPUT CURRENT (MAX)	2 mA
USABLE ADDRESSES PER ALARM ZONE CIRCUIT	126
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
ALARM INDICATOR	Two continuous emitting red LEDs
DIMENSIONS (EXCLUDING CONTACTS)	⌀ 100 mm × 35 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	Electronic Addressing	DIP Switch Addressing	Remote LED Output
NB358A-H	✓		
NB358A-HL	✓		✓
NB358D-H		✓	
NB358D-HL		✓	✓

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NB358

Smoke/Heat Detector

EN-54

EN54-5

EN54-7

NB358 analogue addressable photoelectric smoke/heat detectors are microprocessor controlled state-of-the-art detectors suitable for connection to addressable fire detection control and indicating equipment.
Up to 126 detectors can be connected to each alarm zone loop. Detector addressing is electronically programmed into the detector at the time of installation.
Advanced electronics in conjunction with a photoelectric smoke sensing chamber and an electronic thermistor provide early detection of fire and high immunity against unwanted alarms. The heat sensor provides sensitive rate-of-rise operation or fixed-temperature operation when the response threshold value is exceeded.

Key Features

- Photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena.
- Ideal for both fast-flaming and slow smouldering fires.
- Advanced algorithms provide analogue detection discrimination
- High immunity against unwanted alarms
- Stable smoke sensing chamber. No adjustment or replacement required
- Durable heat sensor. No adjustment or replacement required
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- 2-wire connection
- Easy installation with simple electronic address programming.
- Alternative DIP switch addressing option available.
- Available with 126 usable detector address settings per loop when using either WizPro0 or WizPro1 communications protocol
- Optional remote LED output

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
START-UP CURRENT	≤ 800 μA
STANDBY CURRENT	≤ 500 μA
ALARM CURRENT (MAX)	5 mA @ DC 24 V
RESET VOLTAGE	≤ 5 V
RESET TIME	≤ 30 s
ALARM RESPONSE THRESHOLD (SMOKE)	0.09 dB/m ~ 0.14 dB/m
ALARM RESPONSE THRESHOLD (HEAT)	59 °C
REMOTE LED OUTPUT CURRENT (MAX)	2 mA
USABLE ADDRESSES PER ALARM ZONE CIRCUIT	126
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
ALARM INDICATOR	Two continuous emitting red LEDs
DIMENSIONS (EXCLUDING CONTACTS)	⌀ 100 mm × 48 mm
INGRESS PROTECTION RATING	IP-43

NB358

Smoke/Heat Detector

ORDER CODE	Electronic Addressing	DIP Switch Addressing	Remote LED Output
NB358A-SH	✓		
NB358A-SHL	✓		✓
NB358D-SH		✓	
NB358D-SHL		✓	✓

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NB390S

Addressable Smoke Detector

NB390-S addressable photoelectric smoke detectors are microprocessor controlled state-of-the-art detectors with built-in short circuit isolation, suitable for connection to addressable fire detection control and indicating equipment. Up to 250 detectors can be connected to each loop, depending on FDCIE compatibility. Advanced electronics, in conjunction with a photoelectric smoke sensing chamber, provide early detection of smoke and high immunity against unwanted alarms. The NB390-S range of Smart addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium smoke detector for life safety and property protection applicationsnvironmental conditions.

Key Features

- Advanced algorithms provide analogue detection discrimination
- Stable photoelectric smoke sensing chamber
- High immunity against unwanted alarms
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- 2-wire Smart loop connectivity
- Easy installation with simple address setting DIP switches (NB390D) or software addressing with Hand-held programmer (NB390A)
- 250 detector address settings per loop when using either WizPro2 or WizPro3 communications protocol
- Optional flashing LED polling indicator
- Built in Short circuit isolator
- Optional remote LED output
- Maintenance alert – FDCIE dependent

EN54-7

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
START-UP TIME	≤ 5 s
STANDBY CURRENT	300 µA @ 24V
ALARM CURRENT	1.8 mA @ DC 24V
SAMPLING TIME	1 s
ALARM RESPONSE THRESHOLD (SMOKE)	0.1 dB/m ~ 0.14 dB/m
REMOTE LED OUTPUT CURRENT (MAX)	3.5 mA (NB390A-SL & NB390D-SL only)
USABLE ADDRESSES PER LOOP	250
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 93 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
ALARM INDICATOR	Two red LEDs
DIMENSIONS (WITH BASE)	Ø 152mm × 19 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	Remote LED Output	DIL Switch
NB390D-S		✓
NB390D-SL[a]	✓	✓
NB390A-S	✓	
NB390A-SL[a]	✓	

[a] Requires 4-terminal base if remote indicator is installed.

NB390H

Addressable Heat Detector

NB390H addressable heat detectors are microprocessor controlled state - of-the-art detectors with built-in short circuit isolation suitable for connection to addressable fire detection control and indicating equipment. Up to 250 detectors can be connected to each loop, depending on FDCIE compatibility. An electronic thermistor sensor provides sensitive rate-of-rise alarm operation, or fixed-temperature operation when the response threshold value is exceeded. The NB390H range of Smart addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium heat detector for property protection applications[1] where smoke or multi-sensor detectors may not suitable due to environmental conditions.

EN54-5

Key Features

- Advanced algorithms provide analogue detection discrimination
- Durable sensor. Sleek low-profile housing design. Dual LEDs for 360° visibility
- Loop powered. 2 wire Smart loop connectivity
- Easy installation with simple address setting DIP switches (NB390D) or software addressing with hand-held programmer (NB390A)
- 250 detector address settings per loop when using either WizPro2 or WizPro3 communications protocol
- Optional flashing LED polling indicator
- Built in Short circuit isolator
- Optional remote LED output
- Maintenance alert – FDCIE dependent

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
START-UP TIME	≤ 5 s
STANDBY CURRENT	300 µA @ 24V
ALARM CURRENT	1.8 mA @ DC 24V
SAMPLING TIME	1 s
ALARM RESPONSE THRESHOLD	59° C
ALARM SENSITIVITY CLASS	A1R
REMOTE LED OUTPUT CURRENT (MAX)	3.5 mA (NB390D-HL & NB390A-HL only)
USABLE ADDRESSES PER LOOP	250
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 93 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
ALARM INDICATOR	Two Red LED
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 48 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	Remote LED Output	DIL Switch
NB390D-H		✓
NB390D-HL[a]	✓	✓
NB390A-H		
NB390A-HL[a]	✓	

[a] Requires 4-terminal base if remote indicator is installed.

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NB390SH

Addressable Smoke/Heat Detector

NB390-SH addressable photoelectric smoke / heat detectors are microprocessor controlled state-of-the-art detectors with built-in short circuit isolation suitable for connection to addressable fire detection control and indicating equipment. Up to 250 detectors can be connected to each loop, depending on FDCIE compatibility.Advanced electronics combine a photoelectric smoke sensing chamber and an electronic thermistor to provide early detection of fire and high immunity against unwanted alarms. The heat sensor provides sensitive rate-of-rise operation or fixed-temperature operation when the response threshold value is exceeded. The NB390-SH range of Smart addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium fire detector for life safety and property protection applications.

EN54-5
EN54-7

Key Features

- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena
- Ideal for both fast-flaming and smouldering fires
- Advanced algorithms provide smart detection discrimination
- High immunity against unwanted alarms
- Stable, long life smoke sensing chamber . 2-wire Smart Loop connectivity
- Durable heat sensor. Sleek low-profile housing. Dual LEDs for 360° visibility
- Easy installation with simple address setting DIP switches (NB390D) or soft addressing option via hand-held programmer (NB390A)
- 250 detector address settings per loop when using either WizPro2 or WizPro3 communications protocol
- Optional flashing LED polling indicator. Optional remote LED output
- Built in short circuit isolator
- Maintenance alert – FDCIE dependent

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
START-UP TIME	≤ 5 s
STANDBY CURRENT	300 µA @ 24V
ALARM CURRENT	1.8 mA @ DC 24V
SAMPLING TIME	1 s
ALARM RESPONSE THRESHOLD (SMOKE)	0.1 dB/m ~ 0.14 dB/m
ALARM RESPONSE THRESHOLD (HEAT)	59 °C
ALARM SENSITIVITY CLASS (MAX)	A2
REMOTE LED OUTPUT CURRENT (MAX)	3.5 mA (NB390D-SHL & NB390AD-SHL only)
USABLE ADDRESSES PER LOOP	250
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 93 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
ALARM INDICATOR	Two red LEDs
DIMENSIONS (WITH BASE)	Ø 100mm × 52 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	Remote LED Output	DIL Switch
NB390D-SH		✓
NB390D-SHL[a]	✓	✓
NB390A-SH		
NB390A-SHL[a]	✓	

[a] Requires 4-terminal base if remote indicator is installed.

NB390S (UL)

Addressable Smoke Detector

NB390S Addressable Smoke Detectors are microprocessor controlled state-of-the-art detectors with built-in short circuit isolation suitable for connection to addressable fire detection control and indicating equipment. Up to 250 detectors can be connected to each loop, depending on FDCIE compatibility. A Dual IR transmitter sensor provides high sensitivity with high immunity to cooking nuisance. The NB390S range of Smart addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium heat detector for property protection applications[1].

UL 268
Edition 7

Key Features

- Advanced algorithms provide analogue detection discrimination
- Dual IR transmitter
- Photoelectric smoke sensing technology
- Sleek low-profile housing design. Dual LEDs for 360° visibility
- Loop powered. 2 wire Smart loop connectivity
- Easy installation with simple address setting DIP switches (NB390D) or software addressing with hand-held programmer (NB390A)
- 250 detector address settings per loop when using either WizPro2 or WizPro3 communications protocol
- 2 LEDs for individual alarm indication and flashing polling indicator
- Built in Short circuit isolator
- Optional remote LED output

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	17-28V + 5-9V protocol voltage
RESET & START-UP TIME	3 s & 5 s
STANDBY CURRENT	350uA with protocol pulses
ALARM CURRENT	20 mA @ 24 V DC
START-UP CURRENT (MAX.)	2 mA @ 24 V DC
ALARM RESPONSE THRESHOLD	1.0 – 4.0 %/ft
SAMPLING TIME	1 s
REMOTE LED OUTPUT CURRENT (MAX)	3.5mA@24V
USABLE ADDRESSES PER LOOP	250
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 93 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
ALARM INDICATOR	Two Red LED
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 48 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	Remote LED Output	DIL Switch
NB390D-H		✓
NB390D-HL[a]	✓	✓
NB390A-H		
NB390A-HL[a]	✓	

[a] Requires 4-terminal base if remote indicator is installed.

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NB390H (UL)

Addressable Heat Detector

UL 521

NB390H addressable heat detectors are microprocessor controlled state - of-the-art detectors with built-in short circuit isolation suitable for connection to addressable fire detection control and indicating equipment. Up to 250 detectors can be connected to each loop, depending on FDCIE compatibility. An electronic thermistor sensor provides sensitive rate-of-rise alarm operation, or fixed-temperature operation when the response threshold value is exceeded. The NB390H range of Smart addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium heat detector for property protection applications[1] where smoke or multi-sensor detectors may not suitable due to environmental conditions.

Key Features

- Advanced algorithms provide analogue detection discrimination
- Durable sensor. Sleek low-profile housing design. Dual LEDs for 360° visibility
- Loop powered. 2 wire Smart loop connectivity
- Easy installation with simple address setting DIP switches (NB390D) or software addressing with hand-held programmer (NB390A)
- 250 detector address settings per loop when using either WizPro2 or WizPro3 communications protocol
- Optional flashing LED polling indicator
- Built in Short circuit isolator
- Optional remote LED output
- Maintenance alert – FDCIE dependent

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
START-UP TIME	≤ 5 s
STANDBY CURRENT	300 μA @ 24V
ALARM CURRENT	1.8 mA @ DC 24V
SAMPLING TIME	1 s
ALARM RESPONSE THRESHOLD	59° C
ALARM SENSITIVITY CLASS	Ordinary - Group A - 11.1°C/min
REMOTE LED OUTPUT CURRENT (MAX)	3.5 mA (NB390D-HL & NB390A-HL only)
USABLE ADDRESSES PER LOOP	250
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 93 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
ALARM INDICATOR	Two Red LED
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 48 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	Remote LED Output	DIL Switch
NB390D-H		✓
NB390D-HL[a]	✓	✓
NB390A-H		
NB390A-HL[a]	✓	

[a] Requires 4-terminal base if remote indicator is installed.

NB390SH (UL)

Addressable Smoke/ Heat Detector

NB390-SH addressable photoelectric smoke / heat detectors are microprocessor controlled state-of-the-art detectors with built-in short circuit isolation suitable for connection to addressable fire detection control and indicating equipment. Up to 250 detectors can be connected to each loop, depending on FDCIE compatibility.Advanced electronics combine a photoelectric smoke sensing chamber and an electronic thermistor to provide early detection of fire and high immunity against unwanted alarms. The heat sensor provides sensitive rate-of-rise operation or fixed-temperature operation when the response threshold value is exceeded. The **NB390-SH** range of Smart addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium fire detector for life safety and property protection applications.

UL 268
Edition 7
and
UL 521

Key Features

- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena. Dual IR transmitter
- Ideal for both fast-flaming and smouldering fires
- Advanced algorithms provide smart detection discrimination
- High immunity against unwanted alarms. High immunity to cooking nuisance
- Stable, long life smoke sensing chamber . 2-wire Smart Loop connectivity
- Durable heat sensor. Sleek low-profile housing. Dual LEDs for 360° visibility
- Easy installation with simple address setting DIP switches (NB390D) or soft addressing option via hand-held programmer (NB390A)
- 250 detector address settings per loop when using either WizPro2 or WizPro3 communications protocol
- Optional flashing LED polling indicator. Optional remote LED output
- Built in short circuit isolator
- Maintenance alert – FDCIE dependent

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
START-UP TIME	≤ 5 s
STANDBY CURRENT	300 µA @ 24V
ALARM CURRENT	1.8 mA @ DC 24V
SAMPLING TIME	1 s
ALARM RESPONSE THRESHOLD (SMOKE)	1.0 – 4.0 %/ft
ALARM RESPONSE THRESHOLD (HEAT)	59 °C
HEAT SENSITIVITY CLASS	Ordinary - Group A - 11.1°C/min
REMOTE LED OUTPUT CURRENT (MAX)	3.5 mA (NB390D-SHL & NB390AD-SHL only)
USABLE ADDRESSES PER LOOP	250
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 93 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
ALARM INDICATOR	Two red LEDs
DIMENSIONS (WITH BASE)	Ø 100mm × 52 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	Remote LED Output	DIL Switch
NB390D-SH-UL		✓
NB390D-SHL-UL[a]	✓	✓
NB390A-SH-UL		
NB390A-SHI-UL[a]	✓	

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NB392-S

Analogue Addressable Smoke Detector

UL 268

NB392-S analogue addressable photoelectric smoke detectors are microprocessor controlled state-of-the-art detectors with built-in short circuit isolator suitable for connection to addressable fire detection control and indicating equipment. Up to 250 detectors can be connected to each alarm zone loop.
Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms.
The NB392-S range of analogue addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium smoke detector for life safety and property protection applications.

Key Features

The NB392-S smoke detectors are available with numerous attractive features.

- Built-in short circuit isolator
- Advanced algorithms provide analogue detection discrimination
- Surface-mount device (SMD) circuit board design
- Stable photoelectric smoke sensing chamber. No adjustment or replacement required
- High immunity against unwanted alarms
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- DC 24 V operation
- Convenient 2-wire connection
- Easy installation with simple address setting DIP switches or software addressing with Hand-held programmer
- Available with 250 usable detector address settings per loop when using either WizPro2 or WizPro3 communications protocol
- Optional remote LED output
- Low maintenance

Accessories

The following accessories are compatible with NB392-S smoke detectors.

Description	Part number	Datasheet
3-Term Low profile 100 mm diameter base with SCI	982913	
4-Term Low profile 100 mm diameter base with SCI [a]	982914	
Wizpro2 Hand-held Programmer		

[a] for -L models with remote LED output

NB392-S

Analogue Addressable Smoke Detector

Specifications	NB392A-S / NB392D-S	NB392A-SL / NB392D-SL
Operating voltage	DC (17 ~ 28) V	
Start-up time	≤ 5 s	
Standby current	350 μA@24V	
Alarm current	3 mA @ DC 24 V	
Sampling time	4 s	
Alarm response threshold (smoke)	1.68%/ft ~ 3.45%/ft	
Duct Air Velocity	0 – 4000 fpm	
Remote LED output current (max)	---	5 mA
Usable addresses per alarm zone circuit	250	
Operating temperature	-10 °C ~ +37.8 °C	
Operating humidity	0 % ~ 93 % RH, non-condensing	
Storage temperature	-25 °C ~ +80 °C	
Storage humidity	0 % ~ 98 % RH, non-condensing	
Alarm indicator	Two continuous emitting red LEDs	
Dimensions (with base)	ø 100 mm × 48 mm	

Built-in Short Circuit Isolator Electrical Characteristics		
Maximum quiescent Current	I_{Qmax}	30uA
Maximum continuous line Current	I_{Qmax}	700mA
Maximum switching current	I_{Smax}	1A
Maximum leakage current in isolator	I_{L}	NA
Maximum switch resistor	Z_{Cmax}	300mΩ
Isolating voltage	V_{SO}	NA
Reconnecting current	I_{SC}	450mA

Ordering Information	Remote LED Output	DIL Switch
NB392D-S	---	✓
NB392D-SL [a]	✓	✓
NB392A-S	---	---
NB392A-SL [a]	✓	---

[a] Requires 4-terminal base if remote indicator is installed.

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NB392-H

Analogue Addressable Heat Detector

UL 521

NB392-H analogue addressable heat detectors are microprocessor controlled state-of-the-art analogue addressable detectors with built-in isolator suitable for connection to addressable fire detection control and indicating equipment. Up to 250 detectors can be connected to each alarm zone loop.
An electronic thermistor sensor provides sensitive rate-of- rise alarm operation, or fixed-temperature operation when the response threshold value is exceeded.
The NB390-H range of analogue addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium heat detector for property protection applications1 where smoke or multi-sensor detectors may not suitable due to environmental conditions.

Key Features

The NB392-H heat detectors are available with numerous attractive features.

- Built-in short circuit isolator
- Advanced algorithms provide analogue detection discrimination
- Surface-mount device (SMD) circuit board design
- Durable sensor. No adjustment or replacement required
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- DC 24 V operation
- Convenient 2-wire connection
- Easy installation with simple address setting DIP switches or software addressing with hand-held programmer
- Available with 250 usable detector address settings per loop when using either WizPro2 or WizPro3 communications protocol
- Optional remote LED output
- Low maintenance

NB392-H

Accessories

The following accessories are compatible with NB392-H heat detectors.

Description	Part number	Datasheet
3-Term. 100 mm low profile base	982913	
4-Term. 100 mm low profile base [a]	982914	
Wizpro2 Hand-Held Programmer		

[a] for -L models with remote LED output

NB392-H

Analogue Addressable Heat Detector

Specifications	NB392D-H / NB392A-H	NB392D-HL / NB392A-HL
Operating voltage	DC (17 ~ 28) V	
Start-up time	≤ 5 s	
Standby current	350 μA@24V	
Alarm current	3 mA @ DC 24 V	
Sampling time	4 s	
Alarm response threshold	138°F (59°C)	
Alarm sensitivity class	11.1°C/min	
Ceiling spacing	≤ 15 m	
Remote LED output current (max)	---	5 mA
Usable addresses per alarm zone circuit	250	
Operating temperature	-10 °C ~ +37.8 °C	
Operating humidity	0 % ~ 93 % RH, non-condensing	
Storage temperature	-25 °C ~ +80 °C	
Storage humidity	0 % ~ 98 % RH, non- condensing	
Alarm indicator	Two continuous emitting red LEDs	
Dimensions (with base)	ø 100 mm × 48 mm	

Built-in Short Circuit Isolator Electrical Characteristics		
Maximum quiescent Current	I_{Qmax}	30uA
Maximum continuous line Current	I_{Qmax}	700mA
Maximum switching current	I_{Smax}	1A
Maximum leakage current in isolator	I_{L}	NA
Maximum switch resistor	Z_{Cmax}	300mΩ
Isolating voltage	V_{SO}	NA
Reconnecting current	I_{SC}	450mA

Ordering Information	Remote LED Output	DIL Switch
NB392D-H	---	✓
NB392D-HL [a]	✓	✓
NB392A-H	---	---
NB392A-HL [a]	✓	---

[a] Requires 4-terminal base if remote indicator is installed.

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NB392-SH

Analogue Addressable Smoke/Heat Detector

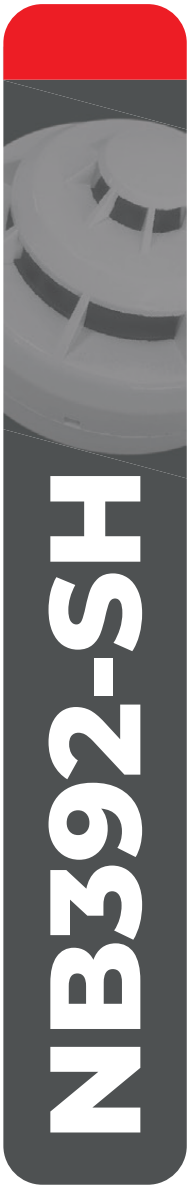
UL 521
UL 268

NB392-SH analogue addressable photoelectric smoke/heat detectors are microprocessor controlled state- of-the-art detectors with built-in isolator suitable for connection to addressable fire detection control and indicating equipment. Up to 250 detectors can be connected to each alarm zone loop.
Advanced electronics in conjunction with a photoelectric smoke sensing chamber and an electronic thermistor provide early detection of fire and high immunity against unwanted alarms. The heat sensor provides sensitive rate-of-rise operation or fixed-temperature operation when the response threshold value is exceeded.
The NB390-SH range of analogue addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium fire detector for life safety and property protection applications.

Key Features

The NB392-SH smoke/heat detectors are available with numerous attractive features.

- Built-in short circuit isolator
- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena.
- Ideal for both fast-flaming and slow smouldering fires.
- Advanced algorithms provide analogue detection discrimination
- Surface-mount device (SMD) circuit board design
- High immunity against unwanted alarms
- Stable smoke sensing chamber. No adjustment or replacement required
- Durable heat sensor. No adjustment or replacement required
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- DC 24 V operation
- Convenient 2-wire connection
- Easy installation with simple address setting DIP switches or software addressing with hand-held programmer
- Available with 250 usable detector address settings per loop when using either WizPro2 or WizPro3 communications protocol
- Optional remote LED output
- Low maintenance



Accessories

The following accessories are compatible with NB392-SH smoke/heat detectors.

Description	Part number	Datasheet
3-Term. 100 mm low profile base	982913	
4-Term. 100 mm low profile base [a]	982914	
Wizpro2 Hand-Held Programmer		

[a] for -L models with remote LED output

NB392-SH

Analogue Addressable Smoke/Heat Detector

Specifications	NB392D-SH / NB392A-SH	NB392D-SHL / NB392A-SHL
Operating voltage	DC (17 ~ 28) V	
Start-up time	≤ 5 s	
Standby current	350 μA@24V	
Alarm current (max)	3 mA @ DC 24 V	
Sampling time	4 s	
Alarm response threshold (smoke)	1.68%/ft ~ 3.45%/ft	
Duct Air Velocity	0 – 4000 fpm	
Alarm response threshold (heat)	138°F (59°C)	
Alarm sensitivity class (heat)	11.1°C/min	
Ceiling spacing	≤ 15 m	
Remote LED output current (max)	---	5 mA
Usable addresses per alarm zone circuit	250	
Operating temperature	-10 °C ~ +37.8 °C	
Operating humidity	0 % ~ 93 % RH, non-condensing	
Storage temperature	-25 °C ~ +80 °C	
Storage humidity	0 % ~ 98 % RH, non- condensing	
Alarm indicator	Two continuous emitting red LEDs	
Dimensions (with base)	ø 100 mm × 58 mm	

Built-in Short Circuit Isolator Electrical Characteristics		
Maximum quiescent Current	I_{Qmax}	30uA
Maximum continuous line Current	I_{Qmax}	700mA
Maximum switching current	I_{Smax}	1A
Maximum leakage current in isolator	I_{L}	NA
Maximum switch resistor	Z_{Cmax}	300mΩ
Isolating voltage	V_{SO}	NA
Reconnecting current	I_{SC}	450mA

Ordering Information	Remote LED Output	DIL Switch
NB392D-SH	---	✓
NB392D-SHL [a]	✓	✓
NB392A-SH	---	---
NB392A-SHL [a]	✓	---

[a] Requires 4-terminal base if remote indicator is installed.

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NB768-S

Addressable Smoke Detector

NB768A-S analogue addressable photoelectric smoke detectors are microprocessor controlled state-of-the-art detectors suitable for connection to addressable fire detection control and indicating equipment. Up to 254 detectors can be connected to each smart addressable loop. Easy installation with simple address setting DIP switches (NB768D) or software addressing with hand-held programmer (NB768A). Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms. The NB768A range of analogue addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium smoke detector for life safety and property protection applications.

Key Features

- Advanced algorithms provide analogue detection discrimination
- Photoelectric smoke sensing technology
- Sleek low-profile housing design. Dual LEDs for 360° visibility
- Loop powered. 2 wire Smart loop connectivity
- Easy installation with simple address setting DIP switches
- 254 detector address settings per loop when using either WizPro2
- 2 LEDs for individual alarm indication and flashing polling indicator
- Optional remote LED output

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	17-28V + 5-9V protocol voltage
RESET & START-UP TIME	30 s (Max.)
STANDBY CURRENT	500uA (Max.)
ALARM CURRENT	5 mA @ 24 V DC
START-UP CURRENT (MAX.)	800uA (Max.)
ALARM RESPONSE THRESHOLD	(2.12 ± 0.61) % / foot obscuration
SAMPLING TIME	1 s
REMOTE LED OUTPUT CURRENT (MAX)	2 mA@24V
USABLE ADDRESSES PER LOOP	254
OPERATING TEMPERATURE	-10 °C ~ +38 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
ALARM INDICATOR	Two Red LED
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 35 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	Remote LED Output	DIL Switch
NB768D-S		✓
NB768D-SL[a]	✓	✓
NB768A-S		
NB768A-SL[a]	✓	

[a] Requires 8-terminal base if remote indicator is installed.

NB768-H

Addressable Heat Detector

NB768-H analogue addressable heat detectors are microprocessor controlled state-of-the-art analogue addressable detectors suitable for connection to addressable fire detection control and indicating equipment. Up to 254 detectors can be connected to each smart addressable loop. An electronic thermistor sensor provides sensitive rate-of rise alarm operation or fixed-temperature operation when the response threshold value is exceeded. The **NB768-H** range of analogue addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium heat detector for property protection applications1 where smoke or multi-sensor detectors may not suitable due to environmental conditions.

Key Features

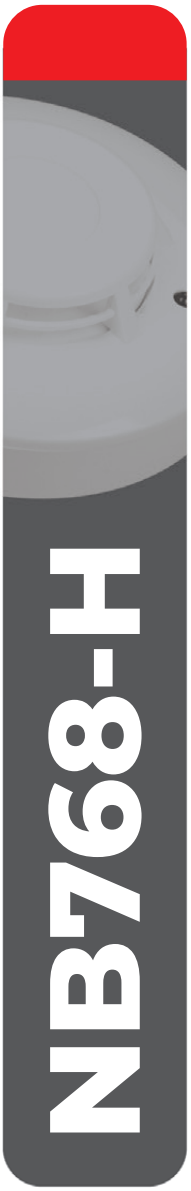
- Advanced algorithms provide true analogue detection discrimination
- Surface-mount device (SMD) circuit board design
- Durable sensor. No adjustment or replacement required
- High immunity against unwanted alarms.
- 2-wire Smart Loop connectivity
- Durable heat sensor.
- Easy installation with simple address setting DIP switches (NB768-D) or soft addressing option via hand-held programmer (NB768-A)
- 250 detector address settings per loop when using WizPro2 communications protocol
- Optional flashing LED polling indicator. Optional remote LED output
- Dual LEDs for 360° visibility
- Sleek low-profile housing.

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
START-UP TIME	≤ 5 s
STANDBY CURRENT	500 μA @ 24V
ALARM CURRENT	5 mA @ DC 24V
SAMPLING TIME	1 s
RESET TIME	50 s
ALARM RESPONSE THRESHOLD (HEAT)	59 °C
HEAT SENSITIVITY CLASS	Ordinary - Group A - 11.1°C/min
REMOTE LED OUTPUT CURRENT (MAX)	2 mA (NB768D-SHL & NB768A-SHL only)
USABLE ADDRESSES PER LOOP	254
OPERATING TEMPERATURE	-10 °C ~ +40 °C
OPERATING HUMIDITY	0 % ~ 93 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
ALARM INDICATOR	Two red LEDs
DIMENSIONS (WITH BASE)	Ø 100mm × 35 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	Remote LED Output	DIL Switch
NB768D-H		✓
NB768D-HL[a]	✓	✓
NB768A-H		
NB768A-HL[a]	✓	

[a] Requires 8-terminal base if remote indicator is installed.



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NB768-SH

Addressable Smoke/ Heat Detector

NB768SH analogue addressable photoelectric smoke/heat detectors are microprocessor controlled state-of-the-art detectors suitable for connection to addressable fire detection control and indicating equipment. Up to 254 detectors can be connected to each alarm zone loop. Advanced electronics in conjunction with a photoelectric smoke sensing chamber and an electronic thermistor provide early detection of fire and high immunity against unwanted alarms. The heat sensor provides sensitive rate-of-rise or fixed-temperature operation when the response threshold value is exceeded. The **NB768-SH** range of analogue addressable detectors provides fire detection and alarm system designers with a standards-compliant, premium fire detector for life safety and property protection applications.

Key Features

- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena.
- Ideal for both fast-flaming and slow smouldering fires.
- Advanced algorithms provide true analogue detection discrimination
- Surface-mount device (SMD) circuit board design
- High immunity against unwanted alarms
- Stable smoke sensing chamber. No adjustment or replacement required
- Durable heat sensor. No adjustment or replacement required
- Sleek low-profile housing design & low maintenance
- Dual LEDs for 360° visibility. Convenient 2-wire connection
- Up to 254 detectors can be connected to each alar zone loop using the WizPro21 loop communications protocol
- Easy installation with simple address setting DIP switches (NB768D) or software addressing with hand-held programmer (NB768A)

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	17-28V + 5-9V protocol voltage
RESET & START-UP TIME	30 s (Max.)
STANDBY & START-UP CURRENT (MAX.)	500uA & 800uA (Max.)
ALARM CURRENT	5 mA @ 24 V DC
ALARM RESPONSE THRESHOLD (SMOKE)	(2.12 ± 0.61) % / foot obscuration
ALARM RESPONSE THRESHOLD (HEAT)	59 °C fixed temperature & 11.1 °C rate-of-rise
SAMPLING TIME	1 s
REMOTE LED OUTPUT CURRENT (MAX)	2 mA@24V
USABLE ADDRESSES PER LOOP	254
OPERATING TEMPERATURE	-10 °C ~ +38 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
ALARM INDICATOR	Two Red LED
DIMENSIONS (EXCLUDING CONTACTS)	Ø 100 mm × 48 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	Remote LED Output	DIL Switch
NB768D-S		✓
NB768D-SL[a]	✓	✓
NB768A-S		
NB768A-SL[a]	✓	

[a] Requires 8-terminal base if remote indicator is installed.

AP100

Address Programmer

The AP100 provides the address and parameter programming for addressable devices. Detectors are fitted to the programmer and a separate programming lead (included) is used for other devices. Parameters, such as flashing of device indicators, are programmed. All key parameters can be read by the programmer from devices that have been previously programmed. A test feature allows installers to check the functioning of the programmed device.

Key Features

- Programs all devices using WizPro0 or WizPro2 communications protocol
- Programs device type (eg smoke detector, heat detector, etc)
- Programs operation of device polling indicators
- Reads device parameters for quick confirmation
- Test function tests the detector address, operation of the internal device alarm indicator, and remote indicator (if available)
- Password power on protection prevent accidental operation
- Integrated base for detectors can be easily changed if damaged
- Bright LCD user display
- Clear button symbols and numbers
- Battery powered for on-site convenience
- Long battery charge life
- Auto power shutdown if no activity to save battery power
- Battery charge status indicator
- Battery charger included
- Rugged design

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
BATTERY VOLTAGE	9 V
BATTERY LIFE (APPROX.)	2 h
BATTERY SAVE TIMER	5 s
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
DIMENSIONS (H × W × D)	(125 x 128 x 45) mm
INGRESS PROTECTION RATING	IP-42

ORDER CODE	Description
AP100	Address device programmer
	Battery pack
	Battery charger
	Programming lead

AP100

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NB773

Alarm Zone Mini Module

NB773 analogue addressable alarm zone mini-modules provide the interface to connect conventional (non-addressable) input devices (such as detectors or manual call points) to addressable control and indicating equipment.
The NB773 alarm zone mini-module is compatible with all Wizmart conventional (non-addressable) fire detection and alarm system detectors, and other input devices.
Up to 254 addressable alarm zone modules can be connected to each alarm zone loop. of the programmed device.

Key Features

- Signals normal, alarm and open-circuit alarm zone conditions
- Small size that neatly fits to alarm zone circuit wiring· Capable of supplying 13 mA to power conventional (non-addressable) devices
- Compatible with 2-wire fire detection and alarm systems
- Easy installation with simple address setting DIP switches
- Available with 126 usable detector address settings per loop when using WizPro0 or WizPro1 communications protocol
- Available with 254 usable detector address settings per loop when using WizPro2 communications protocol

NB773

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
STANDBY CURRENT	≤ 500 μA @ DC 24 V
ALARM CURRENT	13 mA
ZONE OUTPUT CAPACITY	13 mA
TERMINAL WIRING	0,4 mm^2 / 2,5 mm^2
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
DIMENSIONS (H × W × D)	(50 x 28 x 10) mm

ORDER CODE	Communications Protocol
NB773-0	WizPro0
NB773-1	WizPro1
NB773-2	WizPro2

NB774

Output Mini Module

NB774 analogue addressable output mini-modules provide the interface to connect conventional (non-addressable) output devices (such as audio/visual alarm devices) to addressable control and indicating equipment.
The NB774 output mini-module is compatible with all Wizmart conventional (non-addressable) output devices. Up to 254 addressable output modules can be connected to each alarm zone loop..

Key Features

- deal for control of audio/visual alarm devices installed within the alarm zone of a building
- Signals normal and short-circuit alarm zone conditions
- Small size that neatly fits to alarm zone circuit wiring
- Capable of supplying 40 mA to power conventional (non-addressable) devices
- Compatible with 2-wire fire detection and alarm systems
- Easy installation with simple address setting DIP switches
- Available with 126 usable detector address settings per loop when using WizPro0 orWizPro1 communications protocol
- Available with 254 usable detlector address settings per loop when using WizPro2 communications protocol

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
STANDBY CURRENT	≤ 1 mA
ALARM CURRENT (MAX)	40 mA
TERMINAL WIRING	0,4 mm^2 / 2,5 mm^2
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
DIMENSIONS (H × W × D)	(50 x 28 x 10) mm

ORDER CODE	Communications Protocol
NB774-0	WizPro0
NB774-1	WizPro1
NB774-2	WizPro2

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NB765

Manual Call Point

EN-54

EN54-11

NB765 manual call points connect to addressable fire detection control and indicating equipment. Up to 254 devices can be connected to each alarm zone loop using the WizPro2 addressable loop communications protocol.
All models have an integral alarm indicator that illuminates when the manual call point has been activated. Resetting the manual call point is achieved by rotating a key through the front of the unit to place the operating face into the quiescent position.
The NB765 manual call points provide monitoring of quiescent, alarm and fault conditions through the WizPro2 addressable loop communications protocol.

Key Features

- Full analogue addressable using WizPro2 loop communications protocol
- Clear plastic flap provides two-stage operation to reduce accidental activation
- Pressure activated displacement element provides a safe user experience
- Integral alarm indicator to show activation
- Resettable with simple key operation
- Suitable for indoor use
- Compatible with 2-wire fire detection and alarm systems
- Monitors for quiescent, alarm and fault conditions
- Micro-switch output option to drive external current loads
- Easy installation with simple address setting DIP switches

TECHNICAL SPECIFICATIONS

	NB765	NB765-S
OPERATING VOLTAGE	DC (17 ~ 28) V	
STANDBY CURRENT	450 µA	
ALARM CURRENT	5.8 mA	
MICRO-SWITCH OUTPUT CURRENT RATING		1 A @ DC 30 V or 2 A @ AC 125 V
OPERATION TYPE	Direct operation (type A) [a]	
USABLE ADDRESS PER ALARM ZONE CIRCUIT	254	
TERMINAL WIRING	0.4 mm² ~ 2.5 mm²	
OPERATING TEMPERATURE	-10 °C ~ +50 °C	
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing	
DIMENSIONS (W × H × D)	(92 × 92 × 48) mm	
INGRESS PROTECTION RATING	IP-23	

[a] As defined in EN 54-11: “a manual call point in which the change to the alarm condition is automatic (i.e. without the need for further manual action when the frangible element is broken or displaced)”.

ORDER CODE

	Micro-switch output
NB765	
NB765-S	✓

NB761

Input Module

NB761 analogue addressable input modules provide the interface to connect dry-contact switched inputs to addressable control and indicating equipment.
A parallel resistive input filter allows multiple states to be monitored at the input. The states are converted to the loop communications protocol by the module, to enable them to be displayed on the control and indicating equipment.
A single opto-isolated output is available to switch external loads. The output is activated and reset by loop communication messages from the control and indicating equipment.

EN-54

EN54-17
EN54-18

Key Features

- Ideal for states signals available from a control and indicating equipment
- Monitors and signals five distinct input states
  - Normal
  - Pre-alarm
  - Alarm
  - Open-circuit
  - Short-circuit
- Polling indicator shows quiescent operation
- Separate indicators for Alarm, Fault and Isolated conditions
- Opto-isolated output triggered and reset by control and indicating equipment messages
- Optional integral isolator model available
- Compatible with 2-wire fire detection and alarm systems
- Easy installation with simple address setting DIP switches
- Available with 254 usable detector address settings per loop when using WizPro2 communications protocol

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
STANDBY CURRENT	≤ 1.8 mA
ALARM CURRENT	4.8 mA
OPTO-ISOLATED OUTPUT VOLTAGE	DC (5 ~ 30) V
OPTO-ISOLATED OUTPUT SINK CURRENT	1 mA
ALARM INDICATOR	Red
POLLING INDICATOR	Flashing green
FAULT INDICATOR	Yellow
ISOLATED INDICATOR	Yellow
NUMBER OF INPUTS	1
USABLE ADDRESSES PER ALARM ZONE CIRCUIT	254
TERMINAL WIRING	0.4 mm^2 ~ 2.5 mm^2
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
DIMENSIONS (W × H × D)	(92 × 92 × 48) mm
INGRESS PROTECTION RATING	IP-54

ORDER CODE

	Integral Isolator
NB761	
NB761-I	✓

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NB762

Dual Input/output Module

EN-54

EN54-17

EN54-18

NB762 analogue addressable 2-input/output modules provide the interface to connect two electrically isolated dry contact switched inputs to addressable control and indicating equipment, together with a single voltage-free relay output.

A parallel and series resistive input filter allows separate monitoring of the input contact status conditions, and input wiring short-circuit and open-circuit faults. The states are converted to the loop communications protocol by the module, to enable them to be displayed on the control and indicating equipment.

Up to 254 addressable alarm zone modules can be connected to each addressable alarm zone loop.

Key Features

- Single voltage-free relay output
- Two discrete, electrically isolated inputs for connection to dry contact inputs
- Monitors and signals multiple input states
  - Normal
  - Open
  - Closed
  - Open-circuit wiring
  - Short-circuit wiring
- Optional capacitive end-of-line can be fitted
- Polling indicator shows quiescent operation
- Separate indicators for Alarm, Fault and Isolated conditions
- Separate indicator shows when the output relay is activated
- Optional integral isolator model available
- Compatible with 2-wire fire detection and alarm systems
- Easy installation with simple address setting DIP switches
- Available with 254 usable detector address settings per loop when using WizPro2 communications protocol

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
STANDBY CURRENT	≤ 1.8 mA
ALARM CURRENT	4.8 mA
ALARM CURRENT (INCLUDING RELAY)	6.0 mA
INPUT VOLTAGE (PULSED)	DC (9 ~ 11) V
INPUT VOLTAGE RANGE	DC (0 ~ 35) V
ALARM INDICATOR	Red
POLLING INDICATOR	Flashing green
FAULT INDICATOR	Yellow
ISOLATED INDICATOR	Yellow
NUMBER OF INPUTS	2
NUMBER OF OUTPUTS	1
USABLE ADDRESSES PER ALARM ZONE CIRCUIT	254
TERMINAL WIRING	0.4 mm^2 ~ 2.5 mm^2
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
DIMENSIONS (W × H × D)	(92 × 92 × 48) mm
INGRESS PROTECTION RATING	IP-54

ORDER CODE

	Integral Isolator
NB762	
NB762-I	✓

NB763

Alarm Zone Module

NB763 analogue addressable alarm zone modules provide the interface to connect conventional (non-addressable) detectors (such as detectors or manual call points) to addressable control and indicating equipment.
The NB763 alarm zone module is compatible with all Wizmart conventional (non-addressable) fire detection and alarm system detectors, and other input devices. Up to 254 addressable alarm zone modules can be connected to each addressable alarm zone loop.

EN-54

EN54-17
EN54-18

Key Features

- Monitors and signals Quiescent and Alarm conditions from input devices
- Separately monitors and signals short-circuit and open-circuit input wiring
- Separate indicators for Alarm and Isolated conditions
- Polling indicator shows quiescent operation
- Optional integral isolator model available
- Compatible with 2-wire fire detection and alarm systems
- Easy installation with simple address setting DIP switches
- Optional capacitive end-of-line can be fitted
- Available with 254 usable detector address settings per loop when using WizPro2 communications protocol

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
STANDBY CURRENT	4.5 mA + detector load
ALARM CURRENT	13 mA
ZONE OUTPUT CAPACITY	21 mA
ZONE OUTPUT VOLTAGE	DC (18 ~ 20) V @ ≥ 22 V loop voltage DC (15.5 ~ 18.5) V @ < 22 V loop voltage
ALARM INDICATOR	Red
POLLING INDICATOR	Flashing green
ISOLATED INDICATOR	Yellow
USABLE ADDRESS PER ALARM ZONE CIRCUIT	254
TERMINAL WIRING	0.4 mm² ~ 2.5 mm²
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
DIMENSIONS (W × H × D)	(92 × 92 × 48) mm
INGRESS PROTECTION RATING	IP-54

ORDER CODE

	Integral Isolator
NB763	
NB763-I	✓

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NB764

Output Module

EN-54

EN54-17

EN54-18

NB764 analogue addressable output modules provide the interface to connect conventional (non-addressable) output devices (such as audio/visual alarm devices) to addressable control and indicating equipment. A separate input provides optional Fault condition monitoring from a separate input device.
Up to 254 addressable output modules can be connected to each alarm zone loop.
An optional second Group address can simultaneously activate multiple sounders in 15 distinct groups on one alarm zone loop.
The NB764 output module is compatible with all Wizmart conventional (non-addressable) output devices.

Key Features

- Ideal for control of audio/visual alarm devices installed within the alarm zone of a building
- Signals normal and short-circuit alarm zone conditions
- Separate supply connections to power conventional (non-addressable) devices
- Separate indicators for:
  - Polling
  - Alarm condition
  - Isolated condition
  - Normal condition of the connected device
  - Fault condition of the connected device
  - Open-circuit output wiring fault condition
  - Short-circuit output wiring fault condition
  - External power available
- Optional integral isolator model available
- Compatible with 2-wire fire detection and alarm systems
- Easy installation with simple address setting DIP switches
- Available with 254 usable detector address settings per loop when using WizPro2 communications protocol
- Optional Group addresses simultaneously activates multiple sounders in 15 distinct groups connected to a single alarm zone loop

ORDER CODE	Integral Isolator
NB764	
NB764-I	✓

NB764

Output Module

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
STANDBY CURRENT WITH 10 KΩ EOL FITTED	≤ 1.6 mA
ALARM CONDITION CURRENT	1.6 mA
FAULT CONDITION CURRENT	1.5 mA
EXTERNAL SUPPLY CURRENT DRAW (QUIESCENT CONDITION)	1.0 mA @ DC 9 V; 3.5 mA @ DC 32 V
EXTERNAL SUPPLY CURRENT DRAW (ALARM CONDITION) [a]	2.5 mA @ DC 9 V; 9.5 mA @ DC 32 V
OUTPUT MONITORING VOLTAGE	DC (9 ~ 11) V
MAXIMUM OUTPUT VOLTAGE	DC 40 V
EXTERNAL SUPPLY DRIVE CURRENT TO CONNECTED DEVICE(S) (MAX)	1.5 A @ 24 V
ALARM INDICATOR	Red
POLLING INDICATOR	Flashing green
FAULT INDICATOR	Yellow
ISOLATED INDICATOR	Yellow
EXTERNAL POWER AVAILABLE INDICATOR	Green
EXTERNAL POWER ACTIVE INDICATOR	Green
OPEN-CIRCUIT OUTPUT WIRING FAULT CONDITION	Yellow
SHORT-CIRCUIT OUTPUT WIRING FAULT CONDITION	Yellow
USABLE ADDRESS PER ALARM ZONE CIRCUIT	254
TERMINAL WIRING	0.4 mm^2 ~ 2.5 mm^2
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
DIMENSIONS (W × H × D)	(92 × 92 × 48) mm
INGRESS PROTECTION RATING	IP-54

[a] EXCLUDES CONNECTED-DEVICE CURRENT.

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NB106

Remote Indicator

NB106 remote indicators provides audible and visual alarm indication for addressable and conventional control and indicating equipment detectors when the detector connected to the remote indicator enters the alarm condition. The indicator is used to identify the detector in alarm and is useful where the detector cannot be easily seen when installed in the building.
Remote indicators models optionally provide a flashing indicator, with or without a sounder.

Key Features

- Attractive design
- Easily seen when in the alarm condition
- Loud optional audible warning
- Optional flashing or steady-state alarm indicator
- Wide operation voltage range
- Compatible with 2-wire fire detection and alarm systems
- Easy installation with no adjustments required

TECHNICAL SPECIFICATIONS	NB106	NB106-F	NB106-FB
OPERATING VOLTAGE	DC (5 ~ 24) V		DC (9 ~ 24) V
NUMBER OF LED INDICATORS	2		
STANDBY CURRENT	0 A		
ALARM CURRENT [a]	< 6.5 mA	< 3.5 mA	< 5.5 mA
LED FLASH RATE	N / A	1.5 s	
SOUNDER OUTPUT LEVEL [a]	N / A		≥ 85 dB @ 3 m
TERMINAL WIRING	0.4 mm² ~ 2.5 mm²		
OPERATING TEMPERATURE	-10 °C ~ +50 °C		
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing		
DIMENSIONS (W × H × D)	(68 × 68 × 37) mm		

[a] Measured at DC 9 V.

ORDER CODE	Steady state indicator	Flashing indicator	Sounder
NB106	✓		
NB106-F		✓	
NB106-FB		✓	✓

4-Terminal Passive Bases

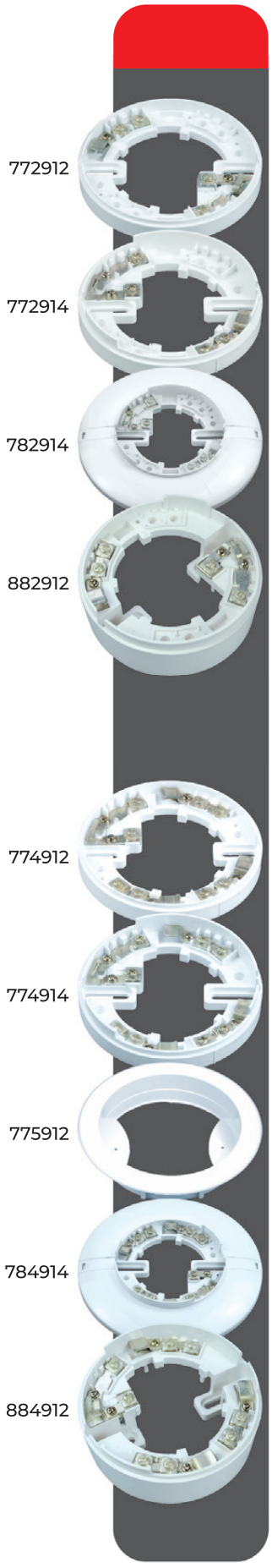
Terminal Detector Bases

The range of non-active, **4-terminal detector bases** are compatible with addressable and conventional (non-addressable) detectors. 4-terminal bases are used with 2-wire fire detection and alarm systems, and are for detectors that do not include additional features such as remote indicator or alarm relay outputs.

Key Features

- Secure mounting to all surfaces. Flexible mounting pitch
- Different diameter sizes for various hole sizes. Low profile models
- High profile models with conduit entry points
- Cable entry points through the rear of the base
- Plated contacts for durable connection to detectors
- Fitted square washer for easy and reliable cable clamping
- Terminals suitable for 0.4 mm^2 ~ 2.5 mm^2 diameter wiring

ORDER CODE	Description	Diameter	Height[a]
772912	4-terminal low profile base without locating collar	99mm	11mm
772914	4-terminal low profile base with locating collar	100mm	11mm
782914	4-terminal low profile base	159mm	11mm
882912	4-terminal high profile base	99mm	29mm



8-Terminal Passive Bases

Terminal Detector Bases

The range of non-active, **8-terminal detector bases** are compatible with addressable and conventional (non-addressable) detectors. 8-terminal bases are used with 4-wire fire detection and alarm systems, and are for 4-wire detectors. 8-terminal bases are also used with 2-wire detectors that include additional features such as remote indicator, sounder or alarm relay outputs.

Key Features

- Additional contacts available for remote indicators or detector relay outputs
- Secure mounting to all surfaces. Flexible mounting pitch
- Different diameter sizes for various hole sizes. Low profile models
- High profile models with conduit entry points. Low maintenance.
- Cable entry points through the rear of the base
- Plated contacts for durable connection to detectors
- Fitted square washer for easy and reliable cable clamping
- Terminals suitable for 0.4 mm^2 ~ 2.5 mm^2 diameter wiring

ORDER CODE	Description	Diameter	Height[a]
774912	8-terminal low profile base without locating collar	99mm	11mm
774914	8-terminal low profile base with locating collar	100mm	11mm
784914	8-terminal low profile base	159mm	11mm
884912	8-terminal high profile base	99mm	29mm
775912	27 mm recessed mounting ring	131mm	3mm

[a] Each base has an alignment collar to assist with locating the detector. The height of the collar has been excluded.

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NB760

Isolator Base

NB760 isolator bases provide electrical isolation of alarm zone wiring for addressable fire detection control and indicating equipment. The use of isolator bases as part of the detector zone wiring ensures that short-circuit faults in the alarm zone loop wiring disable a minimum number of detectors. Up to 254 isolator bases can be connected to each alarm zone loop. No adjustments are required and the isolation circuitry is housed within the normal detector base.

EN-54

EN54-17

Key Features

- Compatible with 2-wire fire detection and alarm systems
- Easy installation with no adjustments required
- Up to 254 isolator bases can be connected to each alarm zone loop
- Self-contained within the detector base. Separate enclosure is not required
- Available with open WizPro2, which is also available to control and indicatingequipment developers as a private protocol
- Available with exclusive WizPro1 loop communications protocol (compatible with Global Fire Equipment Junior and Juno-Net control and indicating equipment)

NB760

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
STANDBY CURRENT (MAX)	30 µA @ DC 24 V
CONTINUOUS CURRENT (MAX)	0.5 A
SWITCHING CURRENT (MAX)	3.0 A
SWITCHING RESISTANCE (MAX)	0.225 Ω
ISOLATING VOLTAGE	DC (12.0 ~ 14.0) V
ACTIVATION CURRENT (PULSED)	45 ~ 60 mA
ACTIVATION CURRENT (CONTINUOUS)	1.2 ~ 2.0 mA
RECONNECTING VOLTAGE (PULSED)	DC (13.0 ~ 15.0) V
RECONNECTING VOLTAGE (CONTINUOUS)	DC (16.0 ~ 27.0) V
DE-ISOLATION IMPEDANCE LIMIT	(180 ~330) Ω
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 95 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
DIMENSIONS (EXCLUDING ALIGNMENT COLLAR)	Ø 99 mm x 11 mm

ORDER CODE	4-Terminal	8-Terminal
NB760-2	✓	
NB760-4[a]		✓

[a] 8-terminal isolator base is required for detectors that have additional output functions, such as remote indicators

FPC-2554 / 2558

Fire Alarm Control Panel

The **FPC-2554** and **FPC-2558** are conventional control panels available with 4 alarm zones or 8 alarm zones.

UL 864 9th Edition - 4/8 Zones

Key Features

- Zones can accept detectors or normally-open contact devices
- Class B Notification Appliance Circuits (NAC)
- Error free Fire / Fault status using unambiguous coloured LED indication
- Main, Standby status audible and visual indication
- Battery Low visual warning with audible tone
- Form-C relays for fire, fault and supervisory outputs
- Zone Isolation facility with loop voltage cut off
- Ground fault annunciation
- Supervised field wiring circuits
- Programmable AC lost delay
- Alarm verification facility
- Programmable fault condition reminder
- Events history with real-time clock
- Rugged metal enclosure

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	AC(120 ~ 230) V
POWER SUPPLY	DC 24 V
ALARM ZONES	4 or 8
INITIATING DEVICE CIRCUITS	Class B Style B/C operation (programmable)
NOTIFICATION APPLIANCE CIRCUITS	2 × Class B Style Y wiring
OPERATING TEMPERATURE	0 °C ~ +49 °C
OPERATING HUMIDITY	93 % RH, non-condensing @25 °C
DIMENSIONS (H × W × D)	(340 × 400 × 120) mm

ORDER CODE

ORDER CODE	Description
FPC-2554	4-zone fire alarm control panel
FPC-2558	8-zone fire alarm control panel

wizMart

FPA84

Addressable Control Panel

The **FPA84** is a multi-loop analogue addressable control panel compatible with Wizmart analogue addressable devices. It provides a flexible solution for small and medium sized installations.

UL 864 9th Edition

Key Features

- Single loop, expandable to four loops
- Networkable
- Supports any combination of up to 254 addressable devices per loop
- Up to 192 alarm zones
- Pre-alarm action
- 2000 event history storage with real-time clock
- Programmable detector sensitivities
- Networkable using RS-485
- Powerful 32-bit ARM Cortex M3 processor
- USB PC interface
- Optional repeater panel
- Auto-dialler/GSM module option available
- Universal mains supply voltage
- Rugged metal enclosure

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	AC(120 ~ 230) V
LOOP VOLTAGE	DC (14 ~ 21) V
ADDRESSABLE LOOPS	4
MAXIMUM NUMBER OF CONNECTED DEVICES	254
ALARM DEVICE CIRCUITS	2
PROGRAMMABLE RELAYS	3 × 2 A @ DC 30 V or 0.5 A @ AC 125 V
OPERATING TEMPERATURE	-0 °C ~ +49 °C
OPERATING HUMIDITY	93 % RH, non-condensing @ 32 °C
DIMENSIONS (H × W × D)	(500 × 400 × 120) mm
WEIGHT	13 kg
INGRESS PROTECTION RATING	IP-50

ORDER CODE

ORDER CODE	Description
FPA84	Addressable control panel

FPA84 RP

Repeater Panel

The **FPA84 RP** repeater panel is a compact remote unit for Avani control panel. It repeats all the indications of FACP in standalone or as a network Panel. It is connected to **FPA84** control panel via an RS-485 communications link. The display parameters can be selected individually to suit the requirement of each remote area.

UL 864 9th Edition

Key Features

- Networkable
- 160 (40 × 4) character LCD display
- Event history storage with real-time clock
- Networkable using RS-485
- Programmable Form C relay for fire
- Extensive in-build transient protection
- Indicator test facility
- Common fire, supervisory and LED fault indication
- Rugged metal enclosure

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC 24 V
QUIESCENT CURRENT	80 mA
ALARM CURRENT	130 mA
PROGRAMMABLE RELAY	1 × 2 A @ DC 30 V or 0.5 A @ AC 125 V
OPERATING TEMPERATURE	-0 °C ~ +49 °C
OPERATING HUMIDITY	93 % RH, non-condensing @ 32 °C
DIMENSIONS (H × W × D)	(300 × 350 × 90) mm
COLOUR	White, red, black powder coat
WEIGHT	5 kg
INGRESS PROTECTION RATING	IP-50

ORDER CODE	Description
FPA84RP	Addressable repeater panel

wizMart

FPC-25AR

Agent Release Panel

The **FPC-25AR** Agent Release Panel fully complies with UL-864 and NFPA-72. While implementing the latest in microprocessor technology for conventional panels ease to operate along with clear visible indications come at an advantage for the end user. These panel are a feature packed control unit performing dual function of detection and controlled release of gaseous agent. These panels have 4 detection circuits and 2 agent release circuit with various programmable options. The panel have all the safety features to prevent accidental release, easy to install, commission with user friendly programmable option, this panel is ideal choice to protect the premises.

Key Features

- 16x2 Dot Matrix LCD Display.
- Operates on 120-220v 60 / 50 Hz, AC Mains power supply.
- 4 Class B initiating device circuit (IDC).
- All zones accept smoke detectors and any normally open contact device.
- Any Zone can be configured as Alarm or supervisory Zone.
- 2 Class B Releasing Agent Circuits (RAC).
- 2 Class B Notification Appliance Circuits (NAC).
- Standby (battery) backup 24v DC power supply with built in charger
- Main, Standby status audio visual indication.
- Battery Low audio visual warning tone.
- 3 Form C programmable relays for Fire / fault / supervisory / Gas Released.
- Two modes of operations Auto / Manual.
- Programmable 24v D.C Outputs.
- RS 485 Communication facility (Optional).
- 200 Events history log with RTC.
- Walk Test facility.
- Zone Isolation facility with voltage cutt off.
- Earth fault annunciation facility.
- All field wiring circuits are Power limited except 220v AC and Battery.
- All field wiring circuits are supervised.
- AC Low voltage cutoff.
- Programmable RAC's with count down timer.
- Programmable AC loss delay
- Programmable Trouble remainder.

Special Features

- UL Listed (9th Edition).
- Switch Mode Power Supply.
- Modular Construction, Serviceable.
- Special logic circuitory to prevent accident release.
- Auto Resettable Fuse.
- Surge Protected.
- Battery polarity & deep discharge protection. NAC's Output:
- Variable solenoid ON / OFF time.
- 4 No's of programmable Initiating Device Circuit and 2 No's of Releasing Agent circuit, with the independent correlation of any no of initiating devices circuit with any one of Release Agent Circuit.
- 3 No's Programmable (Fire, Cross Zone & Gas Release) relays for integration of third party system
- Separate LED indications on front facia for individual Releasing Agent Circuit.

FPC-25AR

Agent Release Panel

TECHNICAL SPECIFICATIONS

PRIMARY POWER (RE-SMPS-4A-R1)	120 - 220VAC ± 10%, 50 Hz, 2.5Amps.
STANDBY POWER	24v D.C (2 Nos of 12v, 12Ah Sealed Lead acid battery). Quiescent current : 120 mA.
OPERATING CONDITION	Operating Temperature 0 - 49° C / 32-120° F.Relative Humidity 93 ± 2% RH (non-condensing) at 32 ±2° C / 90 ± 3° F.
CHARGING CIRCUIT	Charging Voltage : 28.0V, ± 0.2V Charging current : 800mA (Max).
D.C. OUTPUT POWER	Supervised 24VDC regulated, 300mA.
COMMON RELAYS	Type: Form C No of Relays: 3 Relay Contact Rating: 2 Amps @ 30 VDC,
PROGRAMMABLE INPUT CIRCUITS	No. of Inputs: 4 Normal Operating Voltage: 8 - 12 VDC. Short Circuit Current: 5mA Maximum. Loop resistance: 100 ohms Maximum. End-Of-Line Resistor: 3K9, 1/2watt Standby Current: 2.5mA Maximum Manual Release Switch: 3 No's.
INITIATING DEVICE CIRCUITS	All Zones are Class B Style B/C operation (Programmable). Normal Operating Voltage: 14 - 21 VDC. Alarm Current: 15 - 30mA. Short Circuit Current: 45mA Maximum. Loop resistance: 100 ohms Maximum. End-Of-Line Resistor: 3K9, 1/2watt Standby Current : 7mA (2mA for Detectors)
NOTIFICATION APPLIANCE CIRCUITS	Class B, Style - Y wiring No of circuits: 2 Operating Voltage: 24 VDC Nominal Current: 0.6A per circuit Line Drop: 1.8V End-Of-Line Resistor : 3K9, 1/2watt
RELEASING AGENT CIRCUITS	Class B, Style - Y wiring No of circuits: 2 Operating Voltage: 24 VDC Nominal Current: 0.6A per circuit Line Drop: 1.8V End-Of-Line Resistor : 3K9, 1/2watt
DIMENSIONS	(440 W X 350 H X 120 D)mm
IP RATING	IP-50

ORDER CODE

ORDER CODE	Description
FPC-25AR-W	4 ZONE Gas Release Panel (White Color)
FPC-25AR-R	4 ZONE Gas Release Panel (Red Color)

UNO-C

Expandable Conventional Fire Detection Panel

0370-CPR-6750
EN54-2
EN54-4

The **Uno-C** is an expandable conventional control panel offering an aesthetically pleasing and functional cabinet design providing ease of installation and commissioning, as well as simple operation. The unit can be expanded easily from 8 to 16 zones with the addition of two 4 conventional zone modules.

Fully functional “out of the box”, by default all sounders and outputs activate on alarm. Zonal and global delays as well as cause and effect programming can be affected at the panel or using ICE Snido’s ICE (Integrated Configuration Environment) tool, Zone text descriptions must be done using ICE.

The graphic LCD display with real time clock provides clear information with day/night options also available.

There are two logs, one which stores all activations while the other stores faults and other events together with a time and date stamp. The logs can be uploaded into ICE as an excel file for record keeping and to facilitate searching.

Uno-C operation is intuitive, offering simple control and one-button disablement facilities, as well as a one-man test routine, which provides a highly effective way to perform regular testing of the fire alarm system.

UNO-C

Key Features

- 8 zone control panel expandable to a maximum of 16 zones.
- Maximum 32 devices in each conventional zone
- Expansion modules available include 4 conventional zones, 4 relay outputs or 4 additional sounder circuits. Panel supports up to 2 expansion modules
- Capacitive or Resistive End of Line monitoring
- Programmable non-latching zones
- Programmable on/off delay timer per zone
- Multi-Language support
- Easy installation - ready to operate out of the box. Basic programming using the keypad plus a Mini USB-A port for advanced programming with Snido ICE configuration software
- Advanced test mode for field devices and panel testing
- 3 Programable Conventional Sounder Circuits
- 2 Programmable Relay outputs plus Fault relay (N/C)
- 3 Auxiliary Supply Outputs. One of which is momentarily interrupted by panel reset
- EN54-2, EN54-4 certified with APPLUS

UNO-C

Expandable Conventional Fire Detection Panel

TECHNICAL SPECIFICATIONS

SUPPLY SPECIFICATION	
PRIMARY SUPPLY VOLTAGE - IN	110 to 240Vac.
PRIMARY SUPPLY VOLTAGE - OUT	28.5 V DC nominal
PRIMARY SUPPLY CURRENT - OUT	3.0 A@ 28.5 V DC nominal (max.)
SECONDARY SUPPLY VOLTAGE	21.0 min. - 27.2 max. V DC - BAT charger o/p 28 V DC
SECONDARY SUPPLY CURRENT OUTPUT	1.0 Amp Maximum @ 20ºC
INTERNAL BATTERY CAPACITY – MAXIMUM	2 x 12 V x 7 Ah Sealed VRLA Lead Acid Batteries
MAINS FUSE	4 A – 250 V Slow Blow – 20 mm
BATTERY FUSE	1.6 Amp Resettable

CONVENTIONAL ZONE SPECIFICATION	
NUMBER OF CONVENTIONAL ZONES	8 (MIN.) 16 (MAX.)
ZONE CURRENT – QUIESCENT / ALARM	4 mA / 60 mA - Maximum
MAX. CABLE RESISTANCE / CAPACITANCE	40 Ohms / 0.470 uF
END OF LINE MONITORING	Active EOL - Capacitor OR Resistive EOL
BS-5839 DETECTOR REMOVAL COMPLIANT	YES (provided diodes are fitted to detector base)
DEVICES PER ZONE	32 Max. - EN54-2
ALARM RESISTANCE VALUE	270 -1000 Ohms

OUTPUTS SPECIFICATION	
AUXILIARY RELAY OUTPUTS	2 Fire (COM-NC-NO), programmable, 1 Fault (COM-NC)
RELAY CONTACT RATING	50 V DC - 1 Amp resistive loads
SOUNDER CIRCUIT SPECIFICATION	3 x 300mA circuits - fully monitored
ALARM VOLTAGE / END OF LINE RESISTOR	27.5 V DC Nominal /10 K Ohms -1/4 Watt
AUXILIARY SUPPLY OUTPUTS	2 + 1 Switchable during rest 300mA max/200mA continuous

PROGRAMMABLE INPUTS SPECIFICATION	
INPUT 1	Non-Latching - Voltage free contact
INPUT 2	Non-Latching - Voltage free contact

MECHANICAL AND OPERATING SPECIFICATIONS	
DIMENSIONS	385 (w) x 330 (h) x 95 (d) mm
MATERIAL / COLOUR	ABS - GREY RAL 7042
WEIGHT	2.2 Kg without batteries, 7 Kg with batteries (2x12V/7Ah)
OPERATING TEMPERATURE	-10ºC to 40ºc
HUMIDITY	Max 95% RH Non-Condensing

ORDER CODE

UNO-C	Expandable Conventional Panel
SMART-CARD-C	Expansion Card - 4 Conventional Zones
UNO-EXP-SNDR	Expansion Card - 4 Conventional Sounder Circuits
UNO-EXP-REL	Expansion Card - 4 Conventional Relays

UNO-Ex

Fire Detection & Extinguishing Panel

The **Uno-EX** conventional fire detection and extinguishing panel offers a creatively designed and aesthetically pleasing solution to satisfy the increasing global demand for dependable fire suppression systems. The **Uno-EX** is designed and manufactured to comply with EN54-2, EN54-4 and EN12094-1 standards.

Operation is intuitive, offering simple control and one-button disablement facilities, as well as sophisticated test routines, enabling the system operator to perform regular testing of the fire alarm system.

There are two logs, one which stores all activations while the other store faults and other events together with a time and date stamp. The logs can be uploaded into ICE as an excel file for record keeping and to facilitate searching.

CE

0370-CPR-6753
EN54-2
EN54-4
EN-12094-1

Key Features

- 3 detection zones with one extinguishing area.
- Single zone, dual or triple zone co-incidence programmable
- Manual / Manual +Auto operation
- Emergency Manual push button onboard
- Maximum 32 devices in each conventional zone.
- Active or Resistive End of Line monitoring
- Multi-Language support
- Easy installation - ready to operate out of the box. Basic programming using the keypad and easy to read LCD display.
- Pre-programmed sounder outputs for first stage and second stage alarm
- Pre-programmed relays to follow Alarm and extinguishing operations
- Alarm Released, Manual, System Inoperative, Hold switch Active, Abort active
- General fault relay (NC)
- 3 Auxiliary Supply Outputs. One of which is momentarily interrupted by reset
- 2 programmable inputs for door monitoring
- Reset and sounder silence prevention as per EN12094-1

UNO-EX

UNO-Ex

Fire Detection & Extinguishing Panel

TECHNICAL SPECIFICATIONS

SUPPLY SPECIFICATION	
PRIMARY SUPPLY VOLTAGE - IN	110 to 240 V AC
PRIMARY SUPPLY VOLTAGE - OUT	28.5 V DC nominal
PRIMARY SUPPLY CURRENT - OUT	3.0 A @ 28.5 V DC nominal (max.)
SECONDARY SUPPLY VOLTAGE	21.0 min. - 27.2 max. V DC - BAT charger o/p 28 V DC
SECONDARY SUPPLY CURRENT OUTPUT	1.0 Amp Maximum @ 20ºC
INTERNAL BATTERY CAPACITY – MAXIMUM	2 x 12 V x 7 Ah Sealed VRLA Lead Acid Batteries
MAINS FUSE	4 A – 250 V Slow Blow – 20 mm
BATTERY FUSE	1.6 Amp Resettable
AUXILIARY SUPPLY OUTPUTS	3 @300mA (Max), 200mA. continuous

CONVENTIONAL ZONE SPECIFICATION	
NUMBER OF CONVENTIONAL ZONES	3
ZONE CURRENT- QUIESCENT/ ALARM	4 mA / 60 mA - Maximum
MAX. CABLE RESISTANCE / CAPACITANCE	40 Ohms/ 0.470 uF
END OF LINE MONITORING	Active EOL - Capacitor OR Resistive EOL
BS-5839 DETECTOR REMOVAL COMPLIANT	YES (provided diodes are fitted to detector base)
DEVICES PER ZONE	32 Max. – EN54-2
ALARM RESISTANCE VALUE	270 -1000 Ohms

OUTPUTS SPECIFICATION	
AUXILIARY RELAY OUTPUTS	2 Fire (COM-NC-NO), 1 Fault (NC) Programmable
RELAY CONTACT RATING	50 V DC - 1 Amp resistive loads
SOUNDER CIRCUIT SPECIFICATION	2 x 0.3A max. current / circuit - fully monitored
ALARM VOLTAGE / END OF LINE RESISTOR	27.5 V DC Nominal /10 K Ohms -1/4 Watt
SOLENOID OUTPUT	1 x 1A max. current / circuit – fully monitored

PROGRAMMABLE INPUTS SPECIFICATION	
INPUT 1	Non-Latching - Voltage free contact (N/C or NO)
INPUT 2	Non-Latching - Voltage free contact (N/C or NO)

MECHANICAL AND OPERATING SPECIFICATIONS	
DIMENSIONS	ABS - 385 (w) x 330 (h) x 95 (d) mm METAL – 420 (w) x 420 (h) x 80 (d) mm
MATERIAL	ABS - GREY RAL 7042 METAL
WEIGHT	ABS: 2.2 Kg without batteries; 7 Kg with batteries (2x12V/7Ah) Metal: 6Kg
OPERATING TEMPERATURE	-10ºC to 40ºC
HUMIDITY	Max 95% RH Non-Condensing

ORDER CODE

UNO-EX	Conventional Fire Detection and Extinguishing Panel Standard is ABS. Specify – M for Metal housing

UNO-Lt

Conventional Fire Detection Panel

0370-CPR-6752
EN54-2
EN54-4

The **Uno-Lt** is an expandable conventional control panel offering an aesthetically pleasing and functional cabinet design providing ease of installation and commissioning, as well as simple operation. The unit can be expanded easily from 8 to 16 zones with the addition of two 4 conventional zone modules.

Fully functional “out of the box”, by default all sounders and outputs activate on alarm. Operation is intuitive, offering simple control and one-button disablement facilities, as well as a one-man test routine, which provides a highly effective way to perform regular testing of the fire alarm system.

Clear LED indicators to show Zone Alarm, Fault, Disabled and Test Conditions.

Key Features

- 8 zone control panels expandable to a maximum of 16 zones
- Maximum 32 devices in each conventional zone
- Expansion modules available include 4 conventional zones, 4 relay outputs or 4 additional sounder circuits. Panel supports up to 2 expansion modules
- Active or Resistive End of Line monitoring
- Programmable non-latching zones
- Programmable adjacent zone coincidence
- Programmable on/off delay timer per zone
- Easy installation - ready to operate out of the box
- Advanced test mode for field devices and panel testing
- 2 Programable Conventional Sounder Circuits
- 2 Programmable Relay outputs plus Fault relay (N/C)
- 3 Auxiliary Supply Outputs, one of which is momentarily interrupted by panel reset
- EN54-2, EN54-4 certified with APPLUS

UNO-Lt

UNO-Lt

Conventional Fire Detection Panel

TECHNICAL SPECIFICATIONS

SUPPLY SPECIFICATION	
PRIMARY SUPPLY VOLTAGE - IN	110 to 240 V AC
PRIMARY SUPPLY VOLTAGE - OUT	28.5 V DC nominal
PRIMARY SUPPLY CURRENT - OUT	3.0 A@ 28.5 V DC nominal (max.)
SECONDARY SUPPLY VOLTAGE	21.0 min. - 27.2 max. V DC - BAT charger o/p 28 V DC
SECONDARY SUPPLY CURRENT OUTPUT	1.0 Amp Maximum @ 20ºC
INTERNAL BATTERY CAPACITY – MAXIMUM	2 x 12 V x 7 Ah Sealed VRLA Lead Acid Batteries
MAINS FUSE	4 A – 250 V Slow Blow – 20 mm
BATTERY FUSE	1.6 Amp Resettable

SMART LOOP SPECIFICATION	
NUMBER OF CONVENTIONAL ZONES	8 (MIN.) 16 (MAX.)
ZONE CURRENT – QUIESCENT / ALARM	4 mA / 60 mA - Maximum
MAX. CABLE RESISTANCE / CAPACITANCE	40 Ohms / 0.470 uF
END OF LINE MONITORING	Active EOL - Capacitor OR Resistive EOL
BS-5839 DETECTOR REMOVAL COMPLIANT	YES (provided diodes are fitted to detector base)
DEVICES PER ZONE	32 Max. - EN54-2
ALARM RESISTANCE VALUE	270 -1000 Ohms

OUTPUTS SPECIFICATION	
AUXILIARY RELAY OUTPUTS	2 Fire (COM-NC-NO), programmable, 1 Fault (COM-NC)
RELAY CONTACT RATING	50 V DC - 1 Amp resistive loads
SOUNDER CIRCUIT SPECIFICATION	2 x 0.3A max. current/ circuit - fully monitored
ALARM VOLTAGE / END OF LINE RESISTOR	27.5 V DC Nominal /10 K Ohms -1/4 Watt
AUXILIARY SUPPLY OUTPUTS	2 + 1 Switchable during rest 300mA max/200mA continuous

MECHANICAL AND OPERATING SPECIFICATIONS	
DIMENSIONS	385 (w) x 330 (h) x 95 (d) mm
MATERIAL / COLOUR	ABS - GREY RAL 7042
WEIGHT	2.2 Kg without batteries, 7 Kg with batteries (2x12V/7Ah)
OPERATING TEMPERATURE	-10ºC to 40ºC
HUMIDITY	Max 95% RH Non-Condensing

ORDER CODE

UNO-C	Expandable Conventional Panel
SMART-CARD-C	Expansion Card - 4 Conventional Zones
UNO-EXP-SNDR	Expansion Card - 4 Conventional Sounder Circuits
UNO-EXP-REL	Expansion Card - 4 Conventional Relays

UNO-S

Addressable Fire Detection Panel

0370-CPR-6751

EN54-2

EN54-4

The UNO-S is an expandable Smart Addressable Control Panel which offers a modern enclosure design, ease of installation and commissioning, as well as simple out of the box operation. The unit is fitted as standard with 2 Smart Addressable Loops supporting WizPro 2 and later protocols, as well as Snido protocols.

Operation is intuitive, offering simple control and one- button disablement facilities, as well as sophisticated test routines, enabling the system operator to perform regular testing of the fire alarm system.

Standard programming permits “out of the box” operation with any detector, input or manual callpoint operation causing a Fire alarm condition triggering all sounders, conventional and addressable plus all outputs, conventional and addressable.

Complex cause and effect programming can be carried out at the panel using the easy-to-read graphic LCD display or using the ICE (Integrated Configuration Environment) tool. There are two logs, one which stores all activations while the other store faults and other events together with a time and date stamp. The logs can be uploaded into ICE as an excel file for record keeping and to facilitate searching.

UNO-S

Key Features

- Fitted as standard with 2 Smart Addressable Loops
- Maximum 250 devices in each Smart Loop
- Expansion modules available 4 relay outputs or 4 additional sounder circuits
- Programmable delay timers
- Programmable Day/Night operation by day
- Multi-Language support
- Easy installation with simple address programming
- Advanced test mode
- 3 Programable Conventional Sounder Circuits
- 2 Programmable Relay outputs plus Fault output (N/C)
- 3 Auxiliary Supply Outputs, one of which is interrupted by panel reset
- Complex cause and effect programming
- 250 programmable zones
- 250 programmable sounder and 250 output groups
- 8 programmable disablement groups
- EN54-2, EN54-4 certified with APPLUS

UNO-S

Addressable Fire Detection Panel

TECHNICAL SPECIFICATIONS

SUPPLY SPECIFICATION	
PRIMARY SUPPLY VOLTAGE - IN	110 to 240 V AC
PRIMARY SUPPLY VOLTAGE - OUT	28.5 V DC nominal
PRIMARY SUPPLY CURRENT - OUT	3.0 A@ 28.5 V DC nominal (max.)
SECONDARY SUPPLY VOLTAGE	21.0 min. - 27.2 max. V DC - BAT charger o/p 28 V DC
SECONDARY SUPPLY CURRENT OUTPUT	1.0 Amp Maximum @ 20ºC
INTERNAL BATTERY CAPACITY – MAXIMUM	2 x 12 V x 7 Ah Sealed VRLA Lead Acid Batteries
MAINS FUSE	4 A – 250 V Slow Blow – 20 mm
BATTERY FUSE	1.6 Amp Resettable
AUXILIARY SUPPLY OUTPUTS	2 + 1 Switchable during rest 300mA max/200mA continuous

SMART LOOP SPECIFICATION	
NUMBER OF SMART LOOPS	2
LOOP CURRENT (MAX.)	400 mA
LOOP LENGTH (MAX.)	2000 m with cable 2.5 mm^2 cross section (Loop loading dependent)
DEVICES PER LOOP (MAX.)	250

OUTPUTS SPECIFICATION	
AUXILIARY RELAY OUTPUTS	2 Fire (COM-NC-NO) Programmable, 1 Fault (NC)
RELAY CONTACT RATING	50 V DC - 1 Amp resistive loads
SOUNDER CIRCUIT SPECIFICATION	3 x 0.3A max. current / circuit - fully monitored
ALARM VOLTAGE / END OF LINE RESISTOR	27.5 V DC Nominal /10 K Ohms -1/4 Watt

PROGRAMMABLE INPUTS SPECIFICATION	
INPUT 1	Non-Latching - Voltage free contact
INPUT 2	Non-Latching - Voltage free contact

MECHANICAL AND OPERATING SPECIFICATIONS	
DIMENSIONS	385 (w) x 330 (h) x 95 (d) mm
MATERIAL / COLOUR	ABS - GREY RAL 7042
WEIGHT	2.2 Kg without batteries, 7 Kg with batteries (2x12V/7Ah)
OPERATING TEMPERATURE	-10ºC to 40ºC
HUMIDITY	Max 95% RH Non-Condensing

ORDER CODE

UNO-S	Smart Addressable Fire Detection Panel- 2 Loop
UNO-EXP-SNDR	Expansion Card - 4 Conventional Sounder Circuits
UNO-EXP-REL	Expansion Card - 4 Relays

UNO PSU

Auxiliary Power Supply Unit

The Snido UNO-PSU is a complementary power supply unit designed for the UNO range of control panels.

UNO-PSU provides a continuous load of 1A while maintaining the capacity to charge a set of 2 x 12V 7Ah batteries.

A fault relay de-energizes to indicate any fault.

The UNO-PSU has onboard indication of AC or battery operation, supply fault, Aux supply fault (24Vdc out), charger fault, battery fault, battery internal resistance fault.

CE

0370-CPR-6754
EN54-4

Key Features

- Monitored Battery Charger
- Low Battery Voltage Shutdown
- Reverse Polarity Protection
- Battery Charger Current Regulated
- Boxes Unit inc. PSU and Battery Compartment
- EN54-4 certified with APPLUS

UNO PSU

TECHNICAL SPECIFICATIONS

SUPPLY SPECIFICATION	
INPUT SUPPLY	110-240 V AC, 50/60Hz
FUSE	Glass Fuse 4A/250V 5x20 Slow Blow
OUTPUT VOLTAGE	28.2 V DC, Min 21V DC with No Load Max. 27.8V DC, Min 22V DC with 1A Load
OUTPUT TERMINALS	Aux Supply x 2 @ 24Vdc 1A each These terminals have a common resettable fuse
LOW CURRENT AUX. SUPPLY	1@24Vdc 300mA (Max)/ 200mA continuous
CHARGER VOLTAGE	27.5V DC nominal
BATTERIES	VRLA 2 x 12V 7Ah(max), 2 x 12V 2Ah(min)
MAXIMUM CURRENT DRAW FROM BATTERIES (MAINS FAIL)	1 A
BATTERY FUSE	2 A Electronic, self-resetting

MECHANICAL AND OPERATING SPECIFICATIONS	
DIMENSIONS	385 (w) x 330 (h) x 95 (d) mm
MATERIAL / COLOUR	ABS - GREY RAL 7042
WEIGHT	2.2 Kg without batteries, 7 Kg with batteries (2x12V/7Ah)
OPERATING TEMPERATURE	-10ºC to 40ºC
ENVIRONMENT	Indoor, dry

ORDER CODE

UNO-PSU	Auxiliary Power Supply Unit

MCP-UNO-EN Type- A

Addressable Manual Call Point

The **MCP-UNO-EN** is an Addressable Manual Call Point, designed and manufactured to comply with EN54-11 and EN54-17 when the short circuit isolator function is included. Compatible with Snido's UNO control panel.

The unit is supplied complete with a hinged flap which protects the trigger element from accidental activation. A bi-colour LED flashes Green when the Call Point is polled by the control panel and is illuminated Red when in Alarm. In the version with Isolator, a Yellow LED indicates that the isolator is active and a short circuit has been detected in the circuit.

0370-CPR-6914
EN54-11
EN54-17

Key Features

- Clear plastic flap to reduce accidental activation
- Integral alarm indicator to show activation
- Resettable with simple key operation
- Address setting by DIP switch 1 to 250

TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (20 - 30) V
QUIESCENT CURRENT	550 µA
ALARM INDICATOR	1mA (LED ON)
ALARM INDICATOR	Continuous emitting RED LED

MECHANICAL AND OPERATING SPECIFICATIONS	
OPERATING HUMIDITY	Max. 95 % RH, Non Condensing
INGRESS PROTECTION RATING	IP20 (Indoor)
OPERATING TEMPERATURE	-10 °C to 50 °C
MATERIAL	ABS - RED
DIMENSIONS	96 x 99 x 59 mm
WEIGHT	172.5 g

ORDER CODE

MCP-UNO-EN	Addressable Manual Call Point No Isolator
MCP-UNO-EN-I	Addressable Manual Call Point With Isolator

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Conventional System

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