



Key Features:

Easy Operation:

- Simple-to-read text display with 'secret 'til lit' LEDs
- Big, finger-friendly control buttons
- On-site programming, system testing and printing from the control panel

Modular Build:

- Expansion up to 6 loops and 96 ancillary circuits
- 'Plug and Play' technology
Digital addressable, conventionally wired and radio-based devices supported
- Compact indicator with a choice of mounting options
- Site Networking. Interoperable with a range of protocols, including IP

Open Protocol:

- Freedom of choice in the supply of replacement parts, servicing, modification and system upgrade

Powerful System Software:

- Individually programmed control panels to reduce the risk of nuisance alarms
- Comprehensive 'cause and effect' to minimize disruption
- Advanced power management features for optimized power consumption

900evo Control Panel

The 900evo Fire Alarm Control Panel is a two loop, open protocol unit designed for easy expansion.

The modular design, with 'plug and play' technology, supports digitally addressable, conventionally wired and radio-based devices.

Each panel is individually programmed to reduce the risk of nuisance alarms, and comprehensive 'cause and effect' features minimise disruption in the event of an alarm.

Clear text indication is provided on an easy to read display, with up to 60 individual LED zonal indicators and finger-friendly buttons.

Modular wiring options and pre-commission testing features make installation and commissioning easier than ever before.

Part Codes

88071	Fire Alarm Control Panel - 2 loop (expandable)
88070	Fire Alarm Control Panel - 2 loop, with remote indicator mounting (expandable)

Also available:

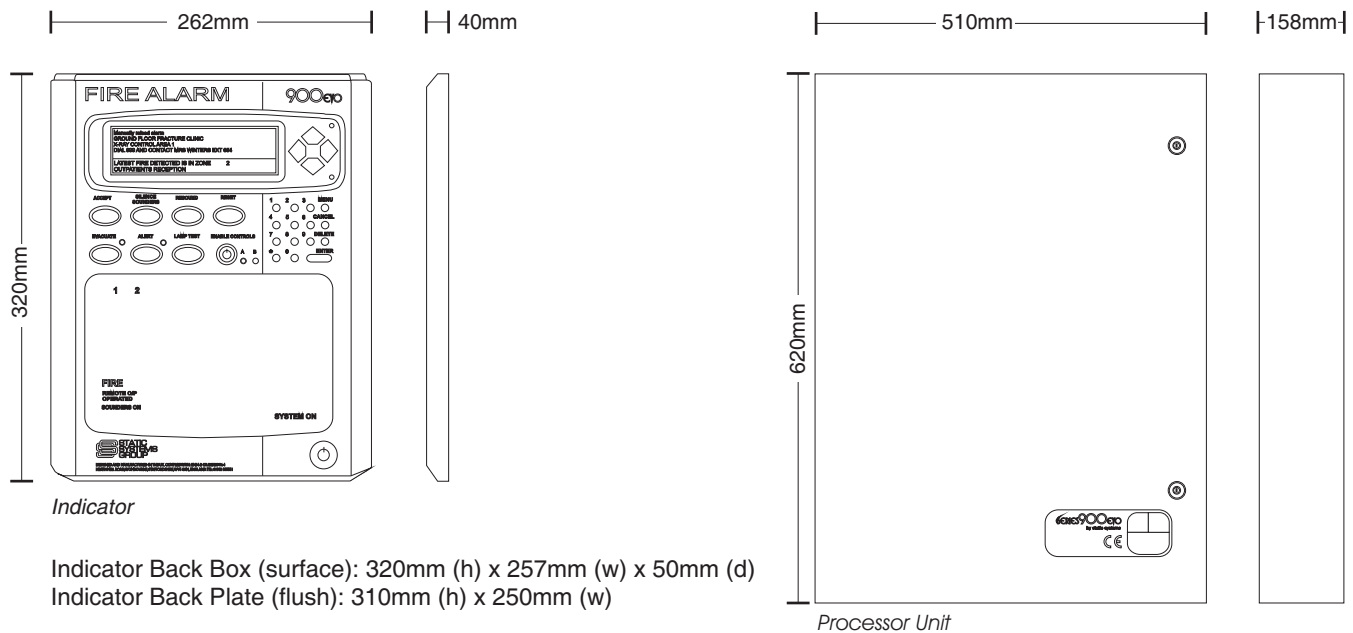
42814	12 Volt, 33 Ahr Sealed Rechargeable Battery
42861	12 Volt, 75 Ahr Sealed Rechargeable Battery
42864	12 Volt, 1.2 Ahr Sealed Rechargeable Battery
46887	900evo 2 Loop Module
46893	900evo Volt-free Direct Wired Module (4 way)
46894	900evo Monitored Input/Output Direct Wired Module (4 way)
46895	900evo Conventional Detector Module (4 way)
46902	900evo Network Module

Technical Specification

Fire Alarm Control Panel

	Construction	Finish	Approx. Weight
Indicator Panel:	Noryl Plastic	Black (RAL 9011)	5Kg (total)
Processor Unit:	1.2mm Zintec Steel	Black (RAL 9011)	
Indicator Back Box:	1.5mm Zintec Steel	Black (RAL 9011)	
Indicator Back Plate:	2mm Aluminium	Self-colour	
Mains Voltage Supply:	230V ac 50 or 60 Hz or 110V ac Hz		
Operating Temperature:	0°C to +35°C		
Loop Operating Voltage:	24V dc		
Devices per loop:	126 (Discovery)		
History Buffer:	1000 events approx.		
Standby Period:	24 hours, plus a further 30 minutes in full alarm load		
Approvals:	BS EN54-2 & 4		

Dimensions



Functions:

- Reset, Evacuate, Silence Alarm, Silence Buzzer Lamp Test, Resound
- Set system time and date
- Select day / night schemes
- Add / remove devices and output groups
- Amend device operation
- Print events and test histories, device status and label details
- 'One-man' zone test
- Display suppressed events
- Disablements

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Key Features:

Easy Operation:

- Simple-to-read text display with 'secret 'til lit' LEDs
- Big, finger-friendly control buttons
- Similar to main fire alarm panels

Modular Build:

- 'Plug and Play' technology
- Site Networking

Interoperable:

- Mobile phone, paging and text messaging compatible
- Graphical indication options

900evo Repeater Panel

Repeat Panels provide a practical method of extending the indication and essential controls of a fire alarm panel to other locations around the site to assist in quickly locating and reacting to an alarm situation.

900evo Repeat Panels are styled similar to main fire alarm panels; retaining the same method of displaying information to avoid confusion in an alarm situation.

Panels can be configured to provide either local repeat indication, or site-wide repeat indication as part of a networked system.

Part Codes

87014 Fire Alarm Local Repeat Indicator

Fire Alarm Network Repeat Indicator

Also available:

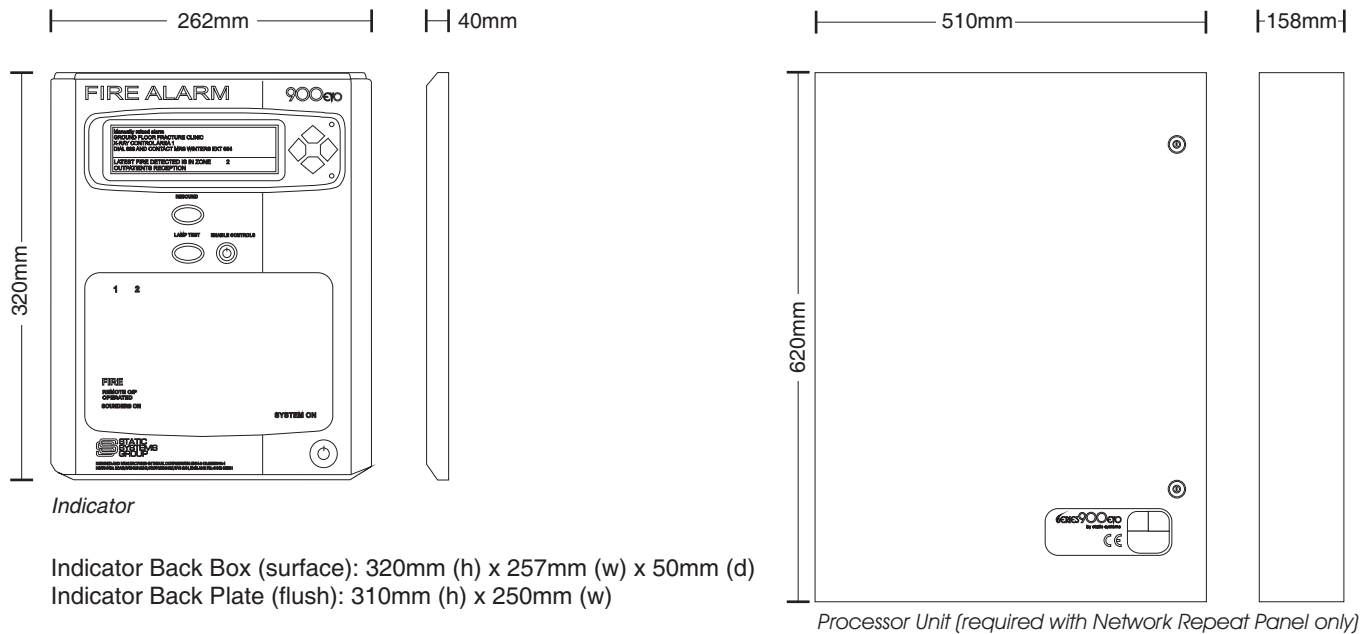
42814 12 Volt, 33 Ahr Sealed Rechargeable Battery

Technical Specification

Fire Alarm Repeat Panel

	Construction	Finish	Approx. Weight
Indicator Panel:	Noryl Plastic	Black (RAL 9011)	5Kg (total)
Processor Unit:	1.2mm Zintec Steel	Black (RAL 9011)	
Indicator Back Box:	1.5mm Zintec Steel	Black (RAL 9011)	
Indicator Back Plate:	2mm Aluminium	Self-colour	
Mains Voltage Supply:	230V ac 50 or 60 Hz or 110V ac Hz		
Operating Temperature:	0°C to +35°C		
Approvals:	BS EN54-2 & 4		

Dimensions



Functions:

- Alarm Indication - all conditions
- Accept
- Lamp Test

Note: This indicator does not include programming functions.

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Management Facilities:

Central Control:

- Real-time image of each sector panel
- Real-time access to all sector panel functions
- Uniform response to fire conditions

Graphical Alarm Indication:

- System status at a glance
- Multi-layered information for the entire site
- Device specific details

Event Logging:

- Automatic logging and display
- Print and download options

Fire Alarm Data Station

The Fire Alarm Data Station comprises :

- PC Base Unit
- 17" TFT Colour Monitor
- Keyboard
- Mouse
- Pre-load 'datastation' software programmed in line with specific site requirements

The Data Station has the ability to view system status, and multi-layered information for the entire site, as well as interrogate specific device details.

It is also able to automatically log and display any events that occur, and there are options to print and download this information.

Part Codes

85402 Fire Alarm Data Station

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Reduce your operational overheads and fire alarm system maintenance costs with Fusion-Centra. Designed for use with 900evo systems, Fusion-Centra provides:

- **Comprehensive testing** of all system connected devices including fire dampers and outstations; undertaken by a single engineer using a smart phone, tablet or notebook PC.
- **Data storage** provided for test logs, service records and commissioning activity using web based technology.
- **Remote access** through a web browser enables monitoring and 'virtual' inspection of the system by off-site personnel - including SSG's technical support team.
- **Compliance analysis and reporting** provides easy access to summaries and trends at system, panel and device level to assist with management reviews.

Fire Alarm Management

Comprehensive testing

Using either a smart phone, tablet or notebook PC, Fusion-Centra allows a single engineer to comprehensively test 900evo fire alarm systems.

Sensors, break glasses, sounders, outstations and other ancillary devices can all be tested with results and progress recorded in real time.

To ensure full system integrity, dampers and other smoke control equipment can also be tested using the system management software.

Data storage

Using web based technology, Fusion-Centra collects and records data and project details centrally on a site based server.

Accessed through a web browser, authorised personnel can retrieve service, maintenance, and commissioning records as well as project programming details, site plans and other related documentation.

Remote access

Authorised users can monitor the status of the fire alarm system and interrogate individual devices to assess their status. In an alarm situation progress of the fire can be reviewed.

Compliance analysis and reporting

By collecting and storing data, Fusion-Centra provides a comprehensive reporting facility to demonstrate compliance to relevant standards and regulations.



Typical summary reports



System requirements

900evo networked fire alarm system running Suite 130 software (or above)

900evo Fire Alarm Datastation

3G access or WiFi connection

3G enabled Mobile device or WiFi enabled device, e.g. tablet, smart phone, notebook PC

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Key Features:

- High Efficiency switched mode power supply
- Compact 5.0A Version
- EN54-4 Approved
- Power and Fault indications
- Requires a 24V supply for operation

Evo Repeater Power Supply Unit

The Evo Repeater Power Supply has been developed using the latest surface mount technology, to provide a high efficiency switch mode power supply.

The power supply units are available in fully enclosed construction providing power and fault indication, or alternatively in caged versions for mounting into existing enclosures of various sizes to suit different battery capacities.

Part Codes

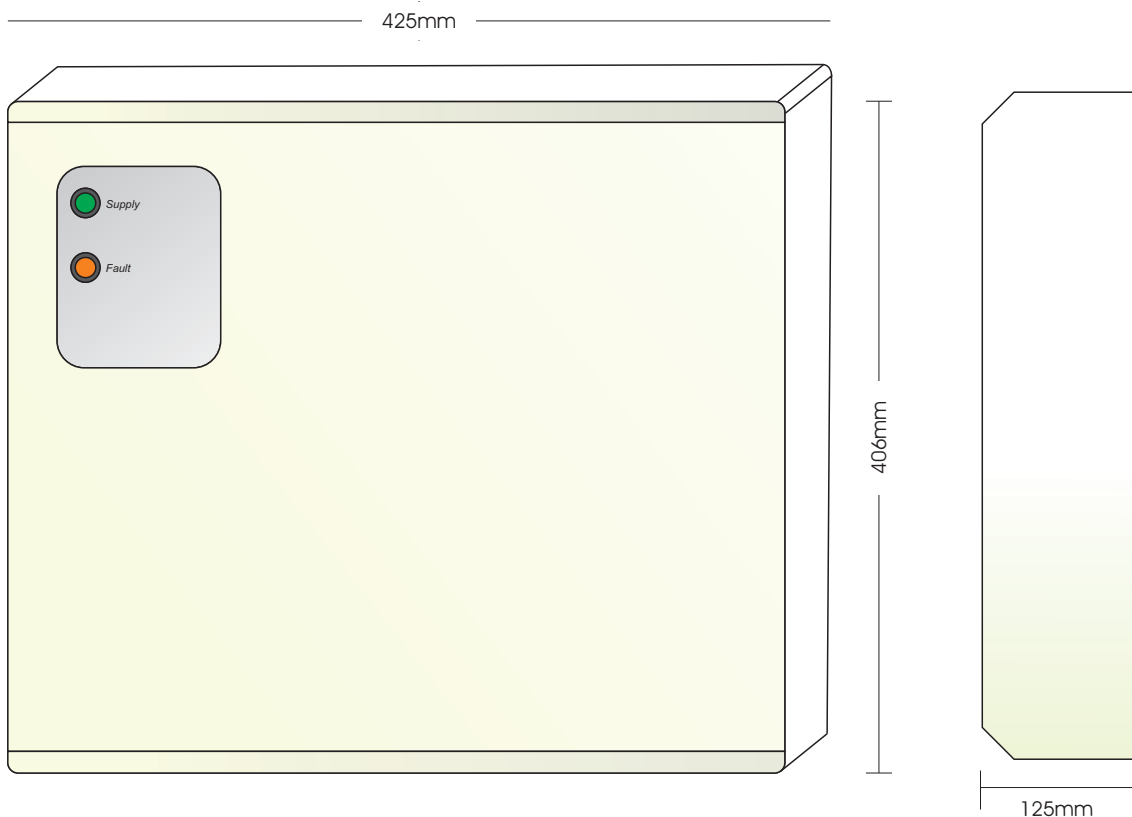
80087 900evo Repeater Power Supply Unit

Technical Specification

900evo Repeater PSU

Mains Voltage Supply:	200-240V AC, 50/60Hz, Fuse T3.15H250
Operating Temperature:	-5°C to +45°C @ full load output
Loop Operating Voltage:	Max 28.5V DC, Min 20.5V DC
Charger Voltage:	27.4V DC nominal at 20°C
Output Current:	5.0A PSE - 3.0A continuous load, 2.0A battery charge
Relative Humidity:	95% non-condensing
Approvals:	BS EN54-4:1998 +A2, EN55022 Class B emissions limits & EN60950-1:2006 Safety standards
Environment:	Indoor, Dry
Fault Output:	Volt-free change-over contacts rated 1A @ 30V DC
On board Indication:	Mains Fail, Charger Fail, Battery Open Circuit, Battery Low & Heartbeat
Weight:	5Kg (without batteries)

Dimensions



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Series 600 control panels include as standard a number of operational functions to assist with initial installation and the smooth day-to-day running of the system.

- **Auto-learn function** interrogates the newly installed loops and automatically identifies all devices. From this point the system is fully operational as a single zone, one-out, all-out system.
- **Programmable function buttons** simplify system disablements and allow for site specific functions.
- **Separate operating modes** for day and night operation.
- **One-touch testing** enables system interrogation to take place without raising a fire alarm condition.
- **Event logging** provides historical data on the last 1,000 events. Comprising: fire, fault and engineering activities, logs can be viewed from the control panel or printed.
- **System functions are supported** by 'help' pages and are access controlled to prevent unauthorised use.

Single Loop Control Panel

The Series 600 Single Loop Control Panel is a versatile, analogue addressable unit suitable for the protection of small to medium sized buildings. Offering 2 programmable direct wired sounder circuits and capable of hosting up to 126 loop powered devices, the Series 600 unit uses leading edge microprocessor based electronics to provide a flexible control system with proven reliability and integrity.

With its large text display, ergonomically designed buttons and panel layout, the Series 600 Control Panel with 16 LED zone indicators, is simple and straightforward to understand for installers, commissioning engineers and end users alike.

- Ergonomically designed buttons
- High brightness LED indicators
- Large easy-to-read, anti-vandal LCD display (240 x 64 pixels)
- Control enable keyswitch for extra security
- In-built 'help' and 'alarm information' screens

Part Codes

60001 Single Loop Control Panel

Technical Specification

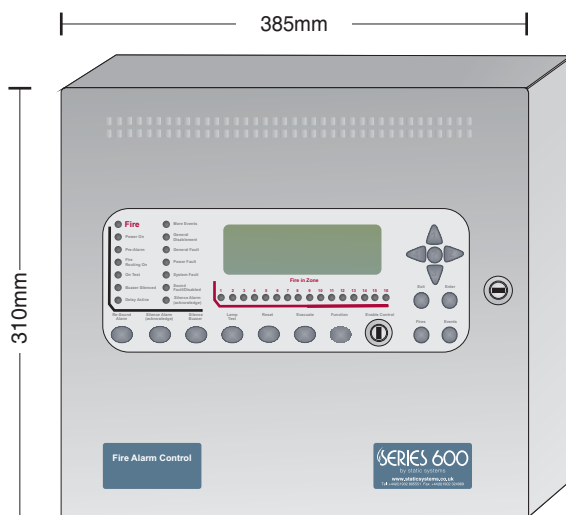
Single Loop Control Panel

Construction:	1.2mm Sheet steel
Enclosure Finish:	Lid & Box - BS 00 a 05 (grey textured) Controls Plate - RAL 7047 (light grey)
Mains voltage supply:	230V AC 50 or 60 Hz
Operating Temperature:	-5 to +35°C
Sounder Output Rating:	2 no. Fused at 500mA each
Loop Operating Voltage:	Modulated 24 - 32 V
Panel Quiescent Current:	1 Loop panel in mains fail = 130mA (excluding detection devices)
Approx. Weight:	8kg (excluding batteries)
Ingress Protection:	IP30
Standby Period:	24 hours from 7Ah batteries

Functions:

- Reset, Evacuate, Silence Alarm, Silence Buzzer, Lamp Test, Resound
- Programmable function button
- Contamination status
- Display suppressed fire events
- Display all other suppressed events
- Disablements
- View devices
- Test zones
- Set system time

Dimensions



Surface: 385mm(w) x 310mm(h) x 90mm(d)
Flush: 415mm(w) x 315mm(h) x 86mm(d)

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- **Event logging** provides historical data on the last 1,000 events. Comprising: fire, fault and engineering activities, logs can be viewed from the control panel or printed.
- **System functions are supported** by 'help' pages and are access controlled to prevent unauthorised use.

Multi-Loop Control Panel

Designed for the protection of medium sized installations, Series 600 Multi-Loop Control Panels are available with either 2 or 4 analogue addressable detection loops, and a choice of either 16, 48 or 96 LED zone indicators.

Each control panel supports 4 direct wired sounder circuits and can be programmed to operate auxiliary outputs as well as receive signals from other alarm equipment. A graphical display provides information in plain text format, with additional user information available through the 'help' button.

Series 600 panels use advanced microprocessor technology to provide a control system of extremely high integrity and they are also designed for easy expansion - providing a future proof solution for any installation.

- Ergonomically designed buttons
- High brightness LED indicators
- Large easy-to-read, anti-vandal LCD display (240 x 64 pixels)
- Control enable keyswitch for extra security
- In-built 'help' and 'alarm information' screens
- Real time clock

Part Codes

60002 2 Loop, 16 Zone Control Panel

60003 2 Loop, 48 Zone Control Panel

60004 2 Loop, 96 Zone Control Panel

60005 4 Loop, 16 Zone Control Panel

60006 4 Loop, 48 Zone Control Panel

60007 4 Loop, 96 Zone Control Panel

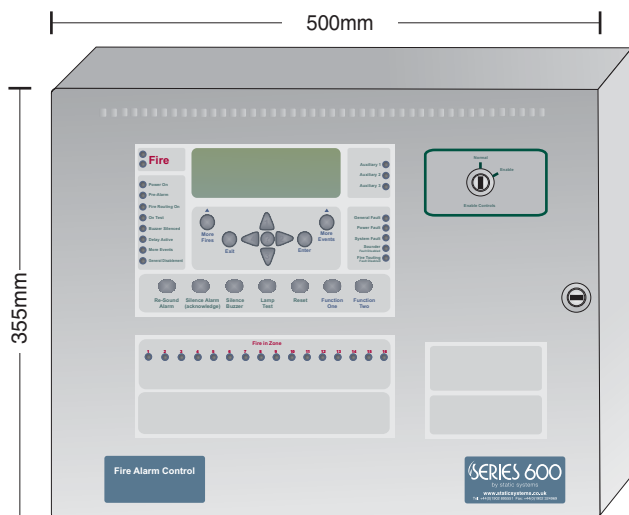
Single Loop Control Panel

Construction:	1.2mm Sheet steel
Enclosure Finish:	Lid & Box - BS 00 A 05 (grey textured) Controls Plate - RAL 7047 (light grey)
Mains voltage supply:	230V AC 50 or 60 Hz
Operating Temperature:	-5 to +35°C
Sounder Output Rating:	2 no. Fused at 1A each
Loop Operating Voltage:	Modulated 24 - 32 V
Panel Quiescent Current:	4 Loop panel in mains fail = 360mA (excluding detection devices)
Approx. Weight:	12kg (excluding batteries)
Ingress Protection:	IP30
Standby Period:	24 hours from 12Ah batteries

Functions:

- Reset, Evacuate, Silence Alarm, Silence Buzzer, Lamp Test, Resound
- 2 Programmable function buttons
- Contamination status
- Display suppressed fire events
- Display all other suppressed events
- Disablements
- View devices
- Test zones
- Set system time

Dimensions



Surface: 500mm(w) x 355mm(h) x 117mm(d)
Flush: 506mm(w) x 360mm(h) x 130mm(d)

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- **Auto-learn function** interrogates the newly installed loops and automatically identifies all devices. From this point the system is fully operational as a single zone, one-out, all-out system.
- **Programmable function buttons** simplify system disablements and allow for site specific functions.
- **Separate operating modes** for day and night operation.
- **One-touch testing** enables system interrogation to take place without raising a fire alarm condition.
- **Event logging** provides historical data on the last 1,000 events. Comprising: fire, fault and engineering activities, logs can be viewed from the control panel or printed.
- **System functions are supported** by 'help' pages and are access controlled to prevent unauthorised use.

Full Function Repeat Panel

Styled similarly to Series 600 Fire Alarm Control Panels, the Full Function Repeater Panel provides a simple and convenient method of extending the controls and indications of the Control Panel to other locations.

The graphics liquid crystal display and high brightness LED indicators duplicate the indications on the Fire Alarm Control Panel at up to 15 additional locations via a simple, two-wire serial data connection.

The Series 600 Full Function Repeater Panel is available in either a 24V DC powered option (which can be powered via an additional 2 cores from the Series 600 Control panel/local 24V DC supply) or a 230V AC powered option with local battery back-up.

- Ergonomically designed buttons
- High brightness LED indicators
- Large easy-to-read, anti-vandal LCD display (240 x 64 pixels)
- Control enable keyswitch for extra security
- In-built 'help' and 'alarm information' screens
- Real time clock

Part Codes

60008 Full Function Repeater Panel (24V DC)

60009 Full Function Repeater Panel (230V AC)

Technical Specification

Single Loop Control Panel

Construction:	1.2mm Sheet steel
Enclosure Finish:	Lid & Box - BS 00 A 05 (grey textured) Controls Plate - RAL 7047 (light grey)
Mains voltage supply:	230V AC 50 or 60 Hz
Operating Temperature:	-5 to +40°C
Panel Quiescent Current:	mains fail = 30mA
Approx. Weight:	5kg
Ingress Protection:	IP30
Standby Period:	24 hours from 1.9Ah batteries

Functions:

- Reset, Evacuate, Silence Alarm, Silence Buzzer, Lamp Test, Resound
- Contamination status
- Display suppressed fire events
- Display all other suppressed events
- Disablements
- View devices
- Test zones
- Set system time

Dimensions



Surface: 385mm(w) x 310mm(h) x 90mm(d)
Flush: 415mm(w) x 315mm(h) x 86mm(d)

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- **Programmable function buttons** simplify system disablements and allow for site specific functions.
- **Seperate operating modes** for day and night operation.
- **One-touch testing** enables system interrogation to take place without raising a fire alarm condition.
- **Event logging** provides historical data on the last 1,000 events. Comprising: fire, fault and engineering activities, logs can be viewed from the control panel or printed.
- **System functions are supported** by 'help' pages and are access controlled to prevent unauthorised use.

110V Control Panel

The Series 600 110V Control Panel is a versatile, analogue addressable unit suitable for the protection of small to medium sized buildings. Offering 2 programmable direct wired sounder circuits and capable of hosting up to 126 loop powered devices, the Series 600 unit uses leading edge microprocessor based electronics to provide a flexible control system with proven reliability and integrity.

With its large text display and ergonomically designed buttons and panel layout, the Series 600 Control Panel with 16 LED zone indicators, is simple and straightforward to understand for installers, commissioning engineers and end users alike.

- Ergonomically designed buttons
- High brightness LED indicators
- Large easy-to-read, anti-vandal LCD display (240 x 64 pixels)
- Control enable keyswitch for extra security
- In-built 'help' and 'alarm information' screens
- Real time clock

Part Codes

60012 110V 1 Loop Control Panel

60013 110V 2 Loop Control Panel

Technical Specification

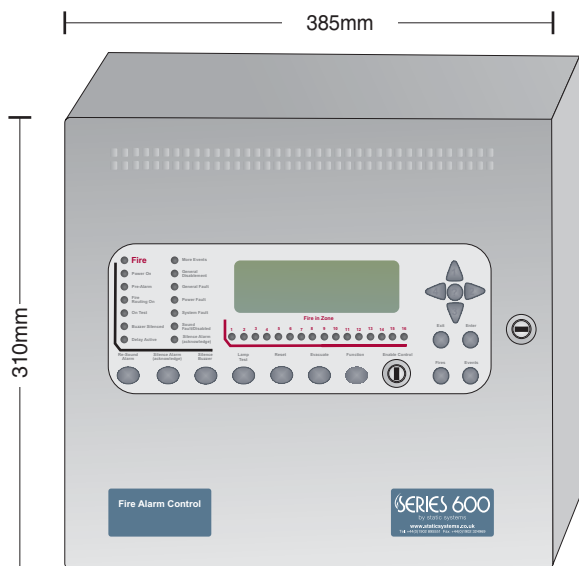
Two Loop Control Panel

Construction:	1.2mm Sheet steel
Enclosure Finish:	Lid & Box - BS 00 A 05 (grey textured) Controls Plate - RAL 7047 (light grey)
Mains voltage supply:	110V AC 50 or 60 Hz
Operating Temperature:	-5 to +35°C
Sounder Output Rating:	2 no. Fused at 500mA each
Loop Operating Voltage:	Modulated 24 - 32 V
Panel Quiescent Current:	2 Loop panel in mains fail = 130mA (excluding detection devices)
Approx. Weight:	6kg (excluding batteries)
Ingress Protection:	IP30
Standby Period:	24 hours from 7Ah batteries

Functions:

- Reset, Evacuate, Silence Alarm, Silence Buzzer, Lamp Test, Resound
- Programmable function button
- Contamination status
- Display suppressed fire events
- Display all other suppressed events
- Disablements
- View devices
- Test zones
- Set system time

Dimensions



Surface: 385mm(w) x 310mm(h) x 90mm(d)
Flush: 415mm(w) x 315mm(h) x 86mm(d)

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- **Auto-learn function** interrogates the newly installed loops and automatically identifies all devices. From this point the system is fully operational as a single zone, one-out, all-out system.
- **Programmable function buttons** simplify system disablements and allow for site specific functions.
- **Seperate operating modes** for day and night operation.
- **One-touch testing** enables system interrogation to take place without raising a fire alarm condition.
- **Event logging** provides historical data on the last 1,000 events. Comprising: fire, fault and engineering activities, logs can be viewed from the control panel or printed.
- **System functions are supported** by 'help' pages and are access controlled to prevent unauthorised use.

Two Loop Control Panel

The Series 600 Two Loop Control Panel is a versatile, analogue addressable unit suitable for the protection of small to medium sized buildings. Offering 2 programmable direct wired sounder circuits and capable of hosting up to 126 loop powered devices, the Series 600 unit uses leading edge microprocessor based electronics to provide a flexible control system with proven reliability and integrity.

With its large text display and ergonomically designed buttons and panel layout, the Series 600 Control Panel with 16 LED zone indicators, is simple and straightforward to understand for installers, commissioning engineers and end users alike.

- Ergonomically designed buttons
- High brightness LED indicators
- Large easy-to-read, anti-vandal LCD display (240 x 64 pixels)
- Control enable keyswitch for extra security
- In-built 'help' and 'alarm information' screens
- Real time clock

Part Codes

60011 Two Loop Control Panel

Technical Specification

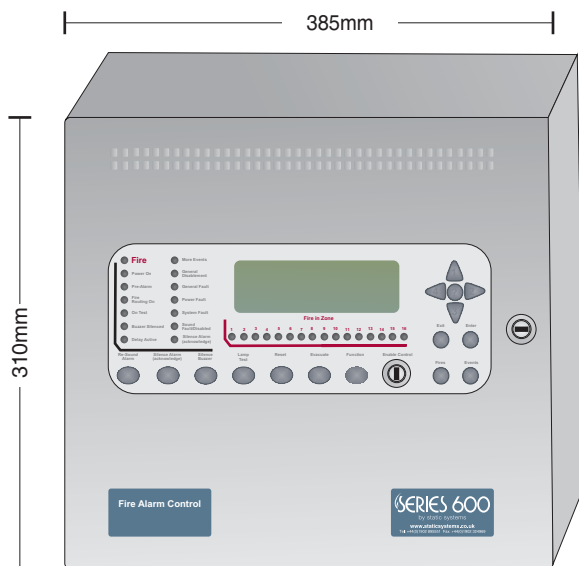
Two Loop Control Panel

Construction:	1.2mm Sheet steel
Enclosure Finish:	Lid & Box - BS 00 A 05 (grey textured) Controls Plate - RAL 7047 (light grey)
Mains voltage supply:	230V AC 50 or 60 Hz
Operating Temperature:	-5 to +35°C
Sounder Output Rating:	2 no. Fused at 500mA each
Loop Operating Voltage:	Modulated 24 - 32 V
Panel Quiescent Current:	2 Loop panel in mains fail = 195mA (excluding detection devices)
Approx. Weight:	6kg (excluding batteries)
Ingress Protection:	IP30
Standby Period:	24 hours from 7Ah batteries

Functions:

- Reset, Evacuate, Silence Alarm, Silence Buzzer, Lamp Test, Resound
- Programmable function button
- Contamination status
- Display suppressed fire events
- Display all other suppressed events
- Disablements
- View devices
- Test zones
- Set system time

Dimensions



Surface: 385mm(w) x 310mm(h) x 90mm(d)
Flush: 415mm(w) x 315mm(h) x 86mm(d)

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Key Features:

- XPERT addressing
- One way fit
- Locking feature to prevent unauthorized removal

Discovery / XP95 Mounting Base

All detectors in the Discovery range fit the Intelligent Mounting Base. The Mounting Base is a low insertion force base with stainless steel contacts for the detector terminals.

XPERT cards are supplied with all bases.

Part Codes

81203 Discovery / XP95 Mounting Base

Mounting Base

Weight: Base - 55g
Detector in base - 160g

Materials: Housing: white polycarbonate V-0 rated to UI94
Terminals: Nickel plated stainless steel



Isolator

The Isolator is placed at intervals on the loop and ensures that, in the case of a short-circuit, only the section between the isolators will be affected.

When the short-circuit is removed, the isolators automatically restore power and data to the isolated section.

Key Features:

- Detects wiring short circuits using patented technology
- Minimises disruption from short-circuits
- Automatic de-isolation on short-circuit removal
- The equivalent of up to 20 smoke detectors can be installed between isolators

Part Codes

81207 Discovery / XP95 Isolator (Head only)

81208 Discovery / XP95 Isolating Base

Technical Specification

Isolator

Power Supply:	Loop Powered
Mounting:	Surface. (Requires base)
Operating voltage:	17-28V DC
Isolation indicator:	Yellow LED, lit continuously in isolation condition
Current consumption	
at 18V:	23 μ A
at 28V:	43 μ A
18V adjacent sector isolated:	4mA
Maximum line current	
Non-isolating continuous:	1.0A
Transition into isolation:	3.0A
Temperature range:	-20°C to +60°C
Humidity:	0 to 95% relative (no condensation or icing)
EMC:	BS 61000 - 6 - 3
IP Rating:	44 in accordance with BSEN60529
Weight:	100g

Dimensions

— dia. 100mm — | — 22mm — |



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Key Features:

- Detects wiring short circuits using patented technology
- Minimises disruption from short-circuits
- Automatic de-isolation on short-circuit removal
- The equivalent of up to 20 smoke detectors can be installed between isolating bases
- High brightness LED

Isolating Base

The Isolating Base senses and isolates short circuit faults on XP95 and Discovery loops and spurs. The base is loop-powered, polarity sensitive and accepts the XPERT card to set the associated device address.

In short-circuit conditions the integral yellow LED is illuminated. The detector associated with the base remains active under short-circuit conditions. Power and signals to the affected section are restored automatically when the fault is cleared.

Part Codes

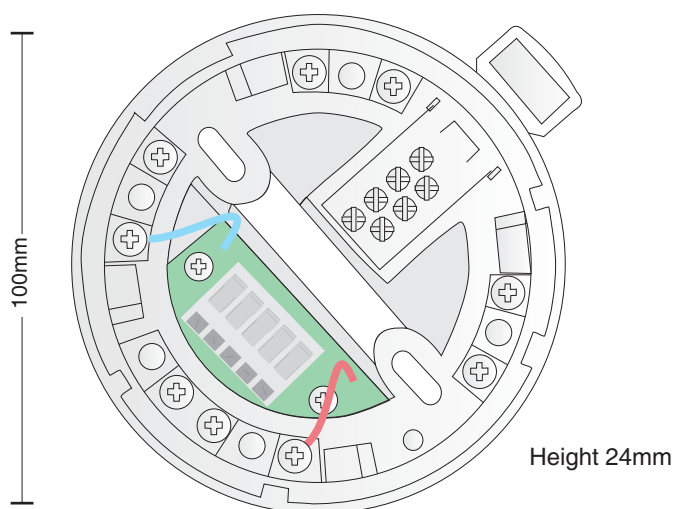
81263 Discovery / XP95 Isolating Base

Technical Specification

Isolating Base

Power Supply:	Loop Powered
Mounting:	Surface. (Requires base)
Operating voltage:	17-28V DC
Isolation indicator:	Yellow LED, lit continuously in isolation condition
Current consumption	
at 18V:	23 μ A
at 28V:	43 μ A
18V adjacent sector isolated:	4mA
Maximum line current	
Non-isolating continuous:	1.0A
Transition into isolation:	3.0A
Temperature range:	-20°C to +60°C
Humidity:	0 to 95% relative (no condensation or icing)
EMC:	BS 61000 - 6 - 3
IP Rating:	44 in accordance with BSEN60529
Weight:	100g
Mounting Environment:	Indoor Only

Dimensions



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Key Features:

- No need for separate back box
- Can be used with tiles up to 25mm thick
- Quick and easy installation

Ceiling Tile Mounting Box

The Ceiling Tile Mounting Box has been designed to make the installation of detectors and sounders quick and easy prior to the fitting of a false ceiling.

Detector bases can be fitted, wired and, if necessary, tested and commissioned before the installation of a false ceiling.

A separate back box is not required as it forms part of the ceiling mounting box.

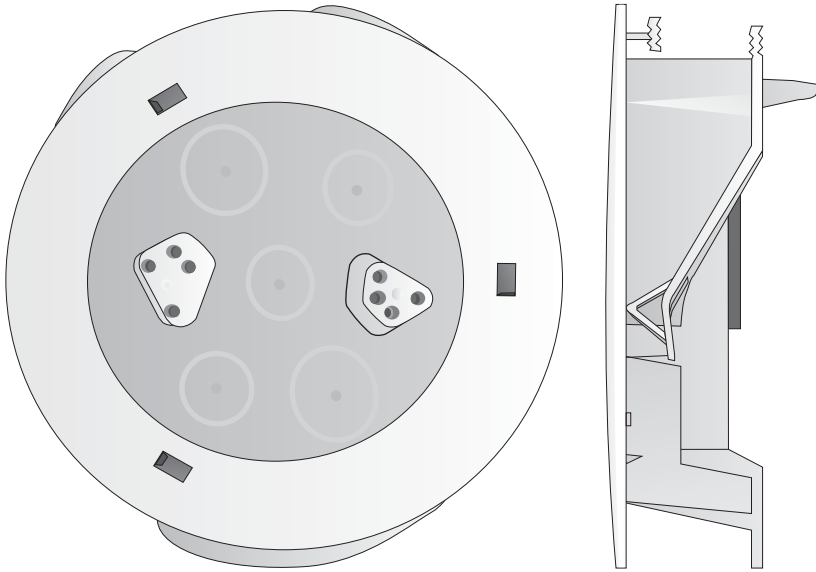
Part Codes

81245 Apollo Ceiling Tile Mounting Box - Detector

Ceiling Tile Mounting Box

Diameter: 126mm
Diameter including blades: 160mm
Weight: 121.56g
Hole size: 127mm

Detector base retaining ring:
Diameter (outer edge to outer edge): 151mm
Weight: 30.25g



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Key Features of Discovery include:

- Rejection of transient signals
- Flashing LED option
- Five response modes for ease of optimisation to changing environments
- Drift compensation to ensure constant sensitivity
- 360° visibility in alarm
- Compatible with XP95 and Discovery systems
- Insect Resistant

Ionisation Smoke Detector

The Discovery Ionisation Smoke Detector uses a low activity radioactive foil to detect fires by irradiating the air in the smoke chambers and causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm.

- Responds well to fast-burning, flaming fires
- Designed to operate in a variety of environments

Part Codes

81226 Discovery Analogue Addressable Ionisation Smoke Detector (head only)

This item also requires a sensor base:

81203 Discovery/XP95 Mount Base

81254 Discovery/XP95 Isolating Base

81249 Apollo Sounder Base

81250 Apollo Sounder Beacon Base

81255 Apollo Combined Beacon & Base

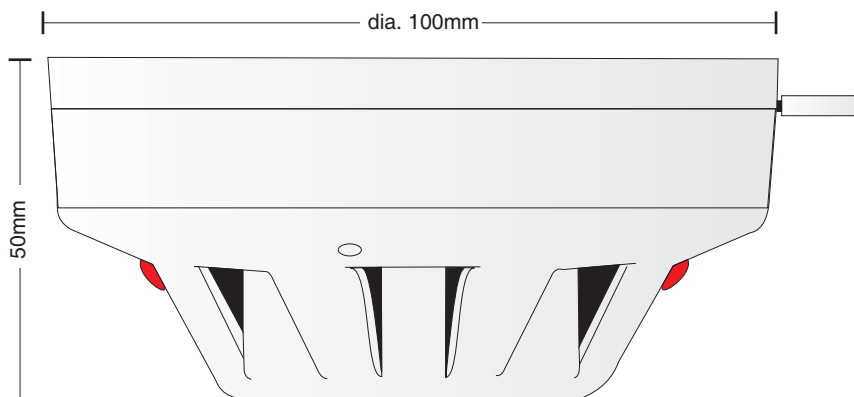
Technical Specification

Ionisation Smoke Detector

Detection principle:	Ionisation Chamber
Radioactive isotope:	Americium 241
Operating voltage:	17-28V DC
Quiescent current:	300µA
Alarm current, LED illuminates:	3.5mA
Alarm Indicator:	2 red Light Emitting Diodes (LEDs). Optional remote LED
Temperature range:	-30°C to +70°C
Humidity:	0 to 95% relative (no condensation or icing)
Effect of temperature:	Less than 10% change in sensitivity over rated range
Effect of atmospheric pressure:	Operating: suitable for installation up to 2,000m above sea level
Effect of wind:	Less than 20% change in sensitivity at speeds up to 10m/s. Note: slow changes in ambient conditions will automatically be compensated and will not affect sensitivity
Vibration , Impact and Shock:	To EN54-7:2000
IP Rating:	44 in accordance with BSEN60529
Weight:	Detector - 105g Detector in base - 160g
Materials:	Housing: white polycarbonate V-0 rated to UL94 Terminals :- Nickel plated stainless steel

Specifications are typical at 24V, 23°C and 50% relative humidity unless otherwise stated.

Dimensions



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Optical Smoke Detector

The Discovery Optical Smoke Detector works using the light scatter principle and is ideal for applications where slow-burning or smouldering fires are likely.

- Responds well to slow burning, smouldering fires
- Well suited for bedrooms and escape routes
- Unaffected by wind or atmospheric pressure

Key Features of Discovery include:

- Rejection of transient signals
- Flashing LED option
- Five response modes for ease of optimisation to changing environments
- Drift compensation to ensure constant sensitivity
- 360° visibility in alarm
- Compatible with XP95 systems
- Insect Resistant

Part Codes

81227 Discovery Analogue Addressable Optical Smoke Detector

This item also requires a sensor base:

81203 Discovery/XP95 Mount Base

81263 Discovery/XP95 Isolating Base

81249 Apollo Sounder Base

81250 Apollo Sounder Beacon Base

81255 Apollo Combined Beacon & Base

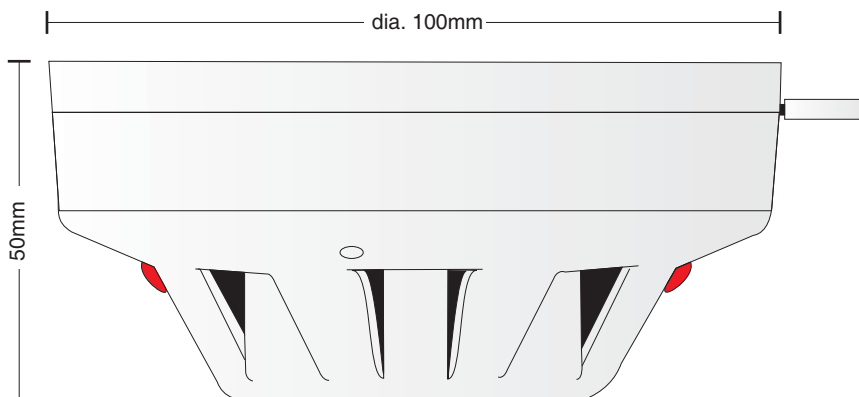
Technical Specification

Optical Smoke Detector

Detection principle:	Photo-electric detection of light scattered in a forward direction by smoke particles
Sampling frequency:	1 per second
Operating voltage:	17-28V DC
Quiescent current:	300 μ A
Alarm current, LED illuminates:	3.4mA
Alarm Indicator:	2 colourless Light Emitting Diodes (LEDs); illuminating red in alarm. Optional remote LED
Temperature range:	-40°C to +70°C
Humidity:	0 to 95% relative (no condensation or icing)
Effect of atmospheric pressure:	None
Effect of wind:	None
Vibration , Impact and Shock:	To EN54-7:2000
IP Rating:	44 in accordance with BSEN60529
Weight:	Detector - 105g Detector in base - 160g
Materials:	Housing: white polycarbonate V-0 rated to UL94 Terminals :- Nickel plated stainless steel

Specifications are typical at 24V, 23°C and 50% relative humidity unless otherwise stated.

Dimensions



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Key Features of Discovery include:

- Rejection of transient signals
- Flashing LED option
- Five response modes for ease of optimisation to changing environments
- Drift compensation to ensure constant sensitivity
- 360° visibility in alarm
- Compatible with XP95 systems
- Insect Resistant

Heat Detector

The Discovery Heat Detector, distinguishable by the low airflow resistant case, uses a single thermistor to sense the air temperature around the detector.

- Ideal for environments that are dirty or smoky under normal conditions
- Well suited for warehouses, loading bays and car parks
- Unaffected by wind or atmospheric pressure

Part Codes

81228 Discovery Analogue Addressable Heat Detector

This item also requires a sensor base:

81203 Discovery/XP95 Mount Base

81263 Discovery/XP95 Isolating Base

81249 Apollo Sounder Base

81250 Apollo Sounder Beacon Base

81255 Apollo Combined Beacon & Base

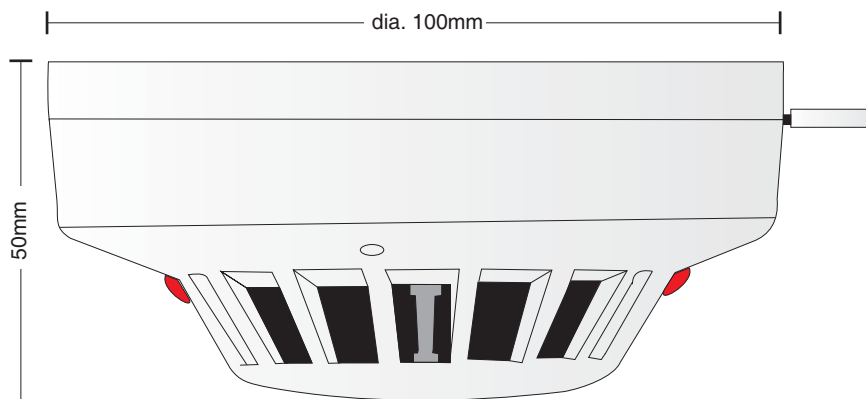
Technical Specification

Heat Detector

Detection principle:	Heat sensitive resistance
Operating voltage:	17-28V DC
Quiescent current:	400 μ A
Alarm current, LED illuminates:	3.5mA
Alarm Indicator:	2 red Light Emitting Diodes (LEDs). Optional remote LED
Temperature range:	Minimum operating (no condensation/icing) - 40°C Storage - 40°C to + 80°C
Humidity:	0 to 95% relative (no condensation)
Vibration , Impact and Shock:	To EN54-7:2001
IP Rating:	54 in accordance with BSEN60529
Weight:	Detector - 105g Detector in base - 160g
Materials:	Housing: white polycarbonate V-0 rated to UL94 Terminals: Nickel plated stainless steel

Specifications are typical at 24V, 23°C and 50% relative humidity unless otherwise stated.

Dimensions



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Key Features of Discovery include:

- Rejection of transient signals
- Flashing LED option
- Five response modes for ease of optimisation to changing environments
- Drift compensation to ensure constant sensitivity
- 360° visibility in alarm
- Compatible with XP95 systems
- Insect Resistant

Multisensor Detector

The Discovery Multisensor Detector comprises optical smoke and thermistor temperature sensors whose outputs are combined to give the final analogue value. As a result, the multisensor is useful over a wide range of applications and is highly immune to false alarms.

- Ideal for a wide range of applications
- Enhanced false alarm management
- Well suited for environments such as hotel bedrooms
- Unaffected by wind or atmospheric pressure
- Well suited for sensitive environments
- Heat only, optical only options

Part Codes

81229 Discovery Analogue Addressable Multisensor Detector

This item also requires a sensor base:

81203 Discovery/XP95 Mount Base

81254 Discovery/XP95 Isolating Base

81249 Apollo Sounder Base

81250 Apollo Sounder Beacon Base

81255 Apollo Combined Beacon & Base

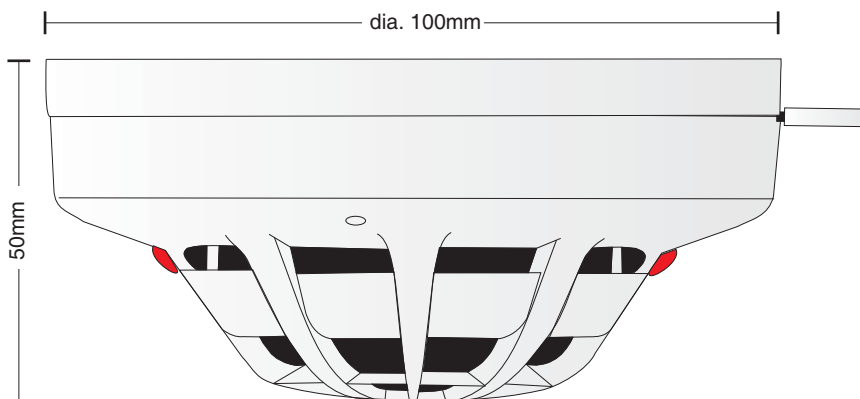
Technical Specification

Multisensor Detector

Detection principle:	Heat sensitive resistance
Operating voltage:	17-28V DC
Quiescent current:	400µA
Alarm current, LED illuminates:	3.5mA
Alarm Indicator:	2 red Light Emitting Diodes (LEDs). Optional remote LED
Temperature range:	Minimum operating (no condensation/icing) - 40°C Storage - 40°C to + 80°C
Humidity:	0 to 95% relative (no condensation)
Vibration , Impact and Shock:	To EN54-7:2001
IP Rating:	54 in accordance with BSEN60529
Weight:	Detector - 105g Detector in base - 160g
Materials:	Housing: white polycarbonate V-0 rated to UL94 Terminals: Nickel plated stainless steel

Specifications are typical at 24V, 23°C and 50% relative humidity unless otherwise stated.

Dimensions



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Key Features of Discovery include:

- Enhanced detection capability
- Early response to hot fires
- Ideal for smouldering fires
- Less susceptible to false alarms caused by steam than smoke alarms
- Remote test feature

Discovery Carbon Monoxide Detector

The Discovery Carbon Monoxide (CO) Detector is good at detecting deep-seated fires.

Note: CO detectors do not detect smoke particles or heat, and are not universal replacements for smoke detectors.

Part Codes

- **Discovery / XP95 Carbon Monoxide Detector**

This item also requires a sensor base:

81203 *Discovery/XP95 Mount Base*

81263 *Discovery/XP95 Isolating Base*

81249 *Apollo Sounder Base*

81250 *Apollo Sounder Beacon Base*

81255 *Apollo Combined Beacon & Base*

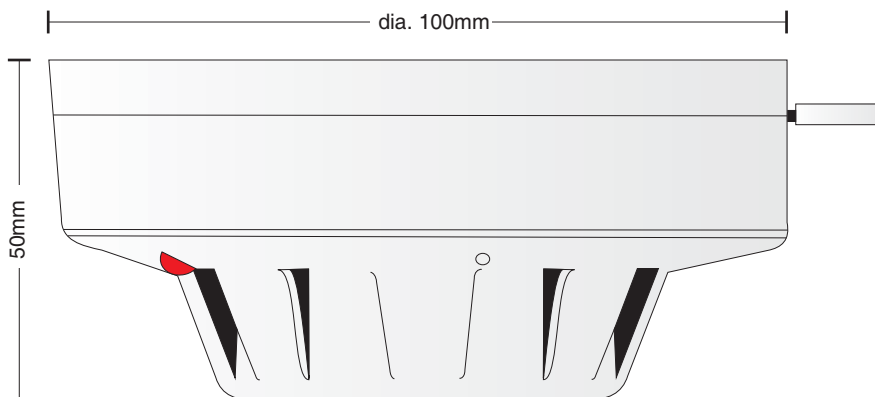
Technical Specification

Carbon Monoxide Detector

Detection principle:	Ambient carbon monoxide level
Sampling frequency:	1 per second
Operating voltage:	17-28V DC
Quiescent current:	300 μ A
Alarm current, LED illuminates:	3.5mA
Alarm Indicator:	2 red Light Emitting Diodes (LEDs); Optional remote LED
Operating temperature:	Continuous: 0°C to +50°C Transient: -20°C to +55°C (no condensation or icing)
Humidity:	Continuous: 15% to 90% RH Transient: 0% to 99% RH
Effect of temperature:	Less than 15% change in sensitivity over rated range
Effect of wind:	None
Vibration , Impact and Shock:	To EN54-7:2000
IP Rating:	54 in accordance with BSEN60529
Weight:	Detector - 105g Detector in base - 160g
Materials:	Housing: white polycarbonate V-0 rated to UL94 Terminals : Nickel plated stainless steel

Specifications are typical at 24V, 23°C and 50% relative humidity unless otherwise stated.

Dimensions



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Key Features:

Fast Alarm Response:

- In-built algorithms flag-up alarm state

Drift Compensation:

- Stability in harsh environments
- Reduces unwanted alarms
- Uniform response to fire conditions

Sensitivity Adjustment:

- One device suitable for many environments
- Day and night selectable
- Suitable for changing environments

Ease of Installation:

- XPERT card simplifies addressing
- Common mounting base

Comprehensive Range:

- Multisensor
- Ionisation smoke detector
- Optical smoke detector
- Heat detector
- CO2 detector

Beam Detector

The Intelligent Reflective Beam Detector is a compact detector for detecting smoke in large open areas such as atria, warehouses, theatres and churches. It also has a built in 20D negative bi-directional short circuit isolator.

The Transmitter and receiver form a single unit mounted to the wall of the building. A reflector which returns the IR beam from the transmitter to the receiver is mounted on the opposite wall. In the event of smoke partially obscuring the light an imbalance between the transmitted and received light will occur. On interrogation by the control panel the detector will then transmit an alarm value.

The Intelligent reflective beam detector is an addition to the Apollo range and not a replacement for the XP95 loop-powered beam detector

Part Codes

81258 Beam Detector (5 - 50 metre range)

81259 Beam Detector (50 - 100 metre range)

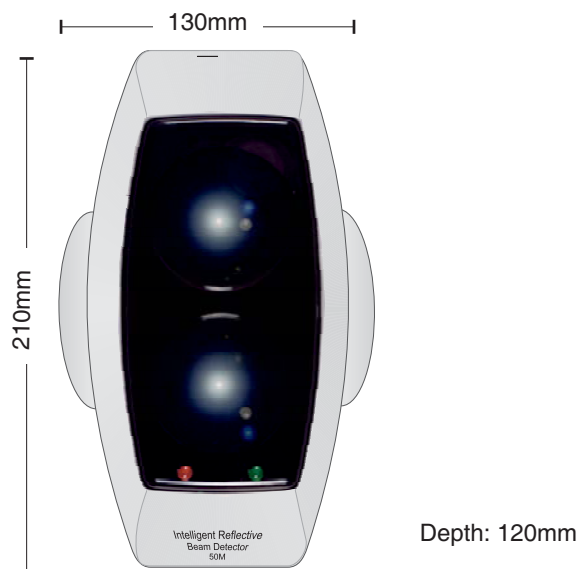
Technical Specification

Beam Detector

Supply voltage:	17-28V DC
Supply current	
Prism targeting mode:	17mA
Alignment mode:	17mA
Run mode (quiescent):	5mA
Alarm (LED illuminated):	9mA
Fault (LED illuminated):	5mA
Alarm thresholds	
25%:	2.50dB
35%:	3.74dB
50%:	6.02dB
Humidity:	0 to 93% RH (Non-condensing)
Temperature range:	-20°C to +55°C
IP Rating:	50
Weight:	670g
Material:	Flame retardant ABS
Colour:	Grey/Black

Specifications are typical at 24V, 23°C and 50% relative humidity unless otherwise stated.

Dimensions



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Key Features:

- Flashing LED option
- Plug and play terminal connections for fast wiring
- Allows wiring continuity testing before fitting
- Reports an alarm in under 0.2 seconds
- Resettable element

Discovery Manual Call Point

The Discovery Manual Call Point is compliant with EN54-11. The Call Point can be addressed at the commissioning stage by means of a seven-segment DIL switch.

When operated, the manual call point interrupts the polling cycle for a fast response.

Part Codes

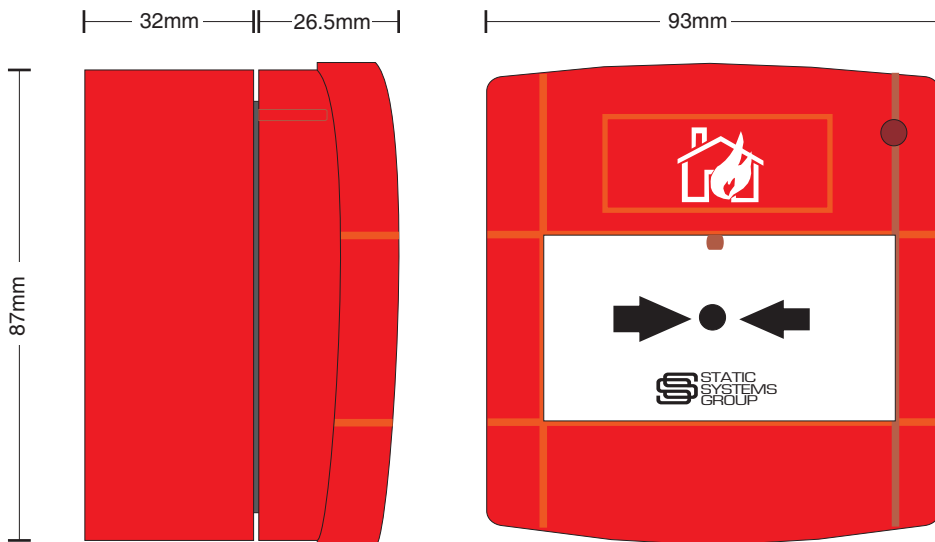
81282 Apollo Discovery Manual Call Point

Technical Specification

Manual Call Point (re-settable)

Call Point type:	Deformable element
Call Point principle:	Operation of a switch
Operating voltage:	17-28V DC
Quiescent current:	100 μ A
Alarm current, LED illuminates:	4mA
Alarm Indicator:	Red Light Emitting Diode (LED)
Temperature range:	-20°C to +60°C
Humidity:	0 to 95% relative (no condensation)
IP Rating:	24 D IP67 (weatherproof)
Weight:	Flush mounted - 110g Surface mounted - 160g
Materials:	Housing: red self-coloured polycarbonate/ABS

Dimensions



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Key Features:

- No need for separate back box
- Can be used with tiles up to 25mm thick
- Quick and easy installation

Ceiling Tile Mounting Box (Sounder)

The Ceiling Tile Mounting Box has been designed to make the installation of detectors and sounders quick and easy prior to the fitting of a false ceiling.

Sounder bases can be fitted, wired and, if necessary, tested and commissioned before the installation of a false ceiling.

A separate back box is not required as it forms part of the ceiling mounting box.

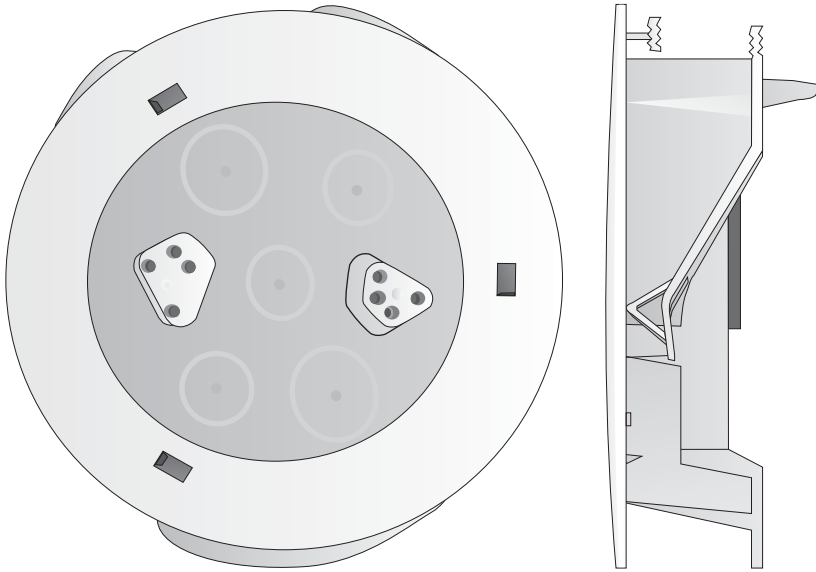
Part Codes

81246 Apollo Ceiling Tile Mounting Box - Sounder

Sounder Base Ceiling Tile Mounting Box

Diameter: 126mm
Diameter including blades: 160mm
Weight: 121.56g
Hole size: 127mm

Sounder base retaining ring:
Diameter (outer edge to outer edge): 151mm
Weight: 22.27g





Key Features:

- Two tone ranges
- Synchronisation of 'alert' and 'evacuate' tones
- Individual and group addressing
- Unique acoustic self-test
- Integrated base
- Isolator option

Combined Mounting Base & Sounder

The Integrated Base Sounder comprises a base sounder with integral mounting base and is for use with Discovery or XP95 ranges. It is designed for use in enclosed areas.

Part Codes

81249 Apollo Sounder Base

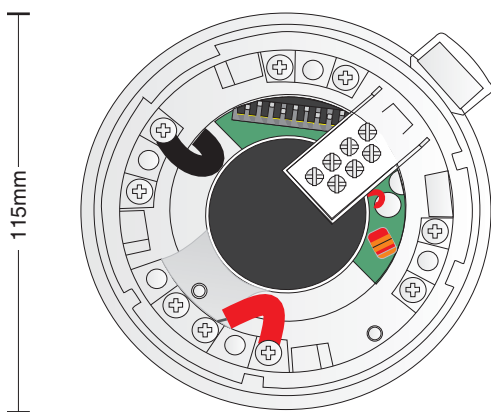
For use with Apollo detectors or blanking plates.

Technical Specification

Sounder Base

Power Supply:	Loop powered
Inputs:	One circuit of conventional detectors
End of line resistor:	5K6Ω
Loop loading:	<1.2mA quiescent 5mA alarm 1.2mA power-up surge
Volume Range:	55-75dB(A) and 75-91dB(A)
Operating Voltage:	17-28V
Protocol Pulses:	5-9V
Temperature range:	-20°C to +60°C
Humidity:	0 to 95% relative (no condensation or icing)
IP Rating:	21D
Weight:	140g

Dimensions



Height: 38mm

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Key Features:

- Two volume ranges, 55-75dB(A) and 75-91dB(A)
- Beacon flash rate of once per second
- Synchronisation of 'alert' and 'evacuate' tones
- Individual and group addressing
- Unique acoustic and beacon self-test
- Synchronisation of beacon flash
- Enables DDA compliance

Comnined Sounder & Beacon Base

The Sounder Beacon Base is a loop-powered sounder and beacon combined with a standard intelligent Mounting Base. It is used to signal a fire alarm in enclosed areas.

The Sounder Beacon Base can be used either with a detector fitted or with a cap for operation

Part Codes

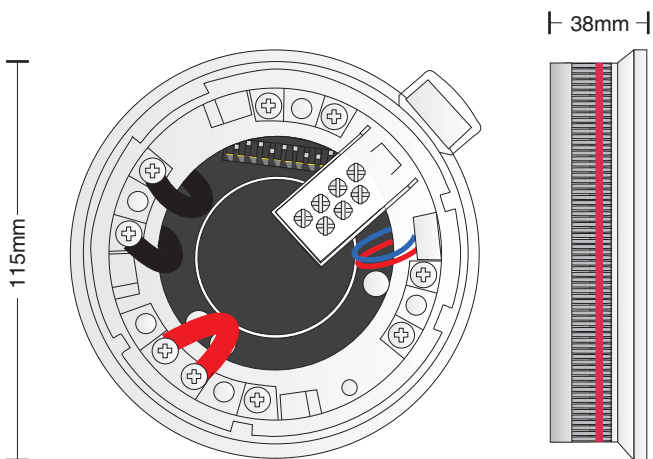
81250 Apollo Sounder Beacon Base

Technical Specification

Sounder Beacon Base

Power Supply:	Loop powered
Protocol pulses:	5-9V
Loop loading:	300 μ A quiescent 8mA device operated 1.2mA power-up surge
Operating voltage:	17-28V DC
Maximum sound output at 90°:	91dB(A)
Temperature range:	-20°C to +60°C
Humidity:	0 to 95% relative (no condensation or icing)
IP Rating:	21C
Weight:	160g

Dimensions



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Key Features:

- Beacon flash rate of once per second
- Synchronisation of beacon flash
- Individual and group addressing
- Unique beacon self-test
- Loop powered
- Isolator option

Beacon Base

The Beacon Base is a loop-powered beacon combined with a standard intelligent Mounting Base. It is used to signal a fire alarm in enclosed areas.

The Beacon Base can be used either with a detector fitted or with a cap for operation as a stand-alone alarm device.

Part Codes

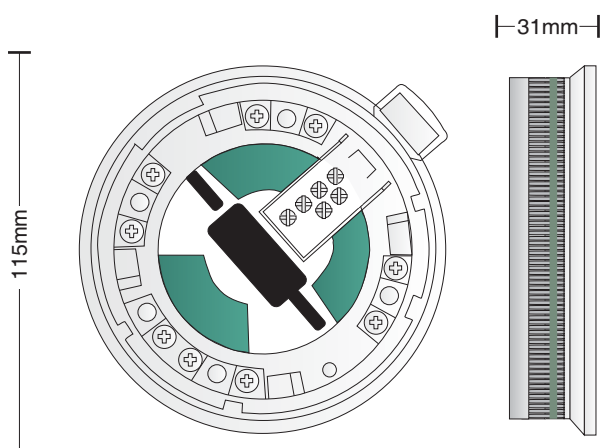
81255 Apollo Beacon Base

Technical Specification

Apollo Beacon Base

Power Supply:	Loop powered
Mounting:	Surface (requires BS Conduit Box)
Operating voltage:	17-28V DC
Protocol pulses:	5-9V
Current consumption at 24V:	1.2mA switch-on surge 300 μ A quiescent 3.1mA device operated
Temperature range:	-20°C to +60°C
Humidity:	0 to 95% relative (no condensation or icing)
IP Rating:	21D
Weight:	109g

Dimensions



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Key Features:

- Can be used across the entire Apollo range
- Small and Discrete
- Anti-tamper screw to protect against unauthorised removal

Remote Indicator

The MiniDisc Remote Indicator is a light-weight, compact LED indicator for use in fire protection systems.

Part Codes

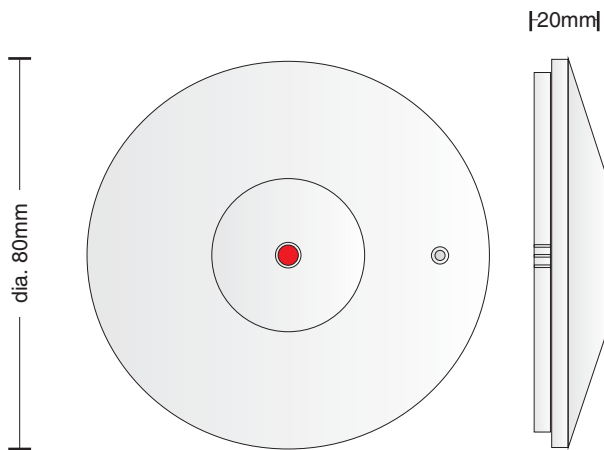
81211 Apollo Remote Indicator

Technical Specification

MiniDisc Indicator

Operating voltage:	17-28V DC
Max current:	25mA
Resistor:	3.6K Ω
Temperature range:	-10°C to +60°C
Humidity:	0 to 95% relative (no condensation or icing)

Dimensions



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Key Features:

- Output is 100dB(A) at 90°
- Current consumption of 5.0mA
- Can be synchronised
- Group address facility
- Loop powered
- Wall mounted

Open-Area Sounder

The 100dB(A) Loop-Powered Sounder is designed for use in open areas and can be connected to any Discovery or XP95 system.

Part Codes

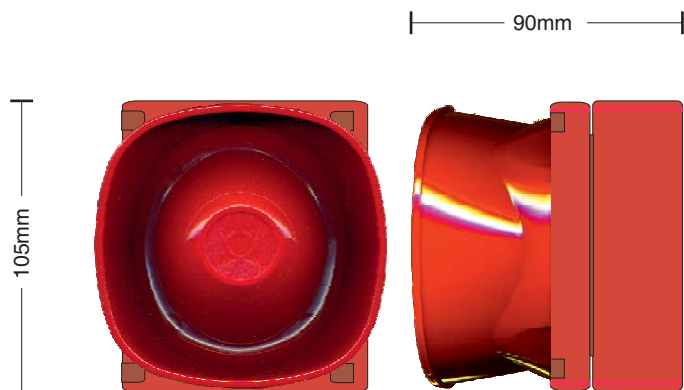
81241 Apollo Sounder - 100dB (Wall fixing)

Technical Specification

Apollo Wall Mounted Sounder

Power Supply:	Loop powered
Sound Output:	100dB(A)
Operating voltage:	18-28V DC
Maximum Current Consumption at 24V,	
Switch-on surge:	1.2mA for <1 sec
Quiescent:	330 μ A
Operated Sounder:	5mA
Temperature range:	-10°C to +55°C
IP Rating:	21C

Dimensions



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Key Features:

- Output is 100dB(A) at 90°
- Current consumption of 5.0mA
- Can be synchronised
- Group address facility
- Loop powered
- Wall mounted
- IP66 (immune to the affects of wind and precipitation)

Open-Area Sounder (Weatherproof)

The 100dB(A) Weatherproof Loop-Powered Sounder is designed for use in open areas and can be connected to any Discovery or XP95 system.

Part Codes

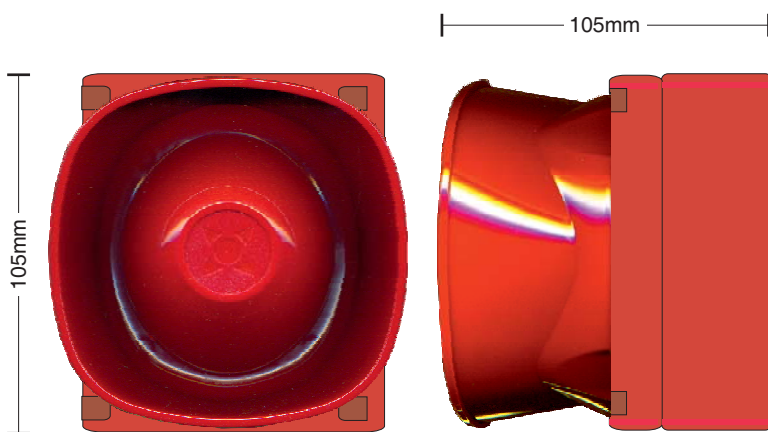
81242 Apollo Sounder - 100dB (Wall fixing, weatherproof)

Technical Specification

Apollo Wall Mounted Sounder (Weatherproof)

Power Supply:	Loop powered
Sound Output:	100dB(A)
Operating voltage:	18-28V DC
Maximum Current Consumption at 24V,	
Switch-on surge:	1.2mA for <1 sec
Quiescent:	330 μ A
Operated Sounder:	5mA
Temperature range:	-20°C to +70°C
IP Rating:	66

Dimensions



Static Systems Group PLC

Heath Mill Road, Wombourne
Staffordshire WV5 8AN,
United Kingdom.

Tel: +44 (0) 1902 895551
Fax: +44 (0) 1902 324969

In line with our company policy of continuous product development,
we reserve the right to change design and improve specification without prior notice.



Key Features:

- High intensity LEDS
- More reliable than xenon beacons
- Automatic LED check
- Lockable
- Wide angle of visibility
- Enables DDA compliance
- Synchronised flash
- Can be used with Discovery or XP95

Loop-Powered Beacon

The Loop-Powered Beacon is a local-area beacon designed for indoor use. The beacon has been developed as a supplement to sounders for use in situations where there is a risk that sounders will not be heard.

Part Codes

81243 Apollo XP95 Beacon

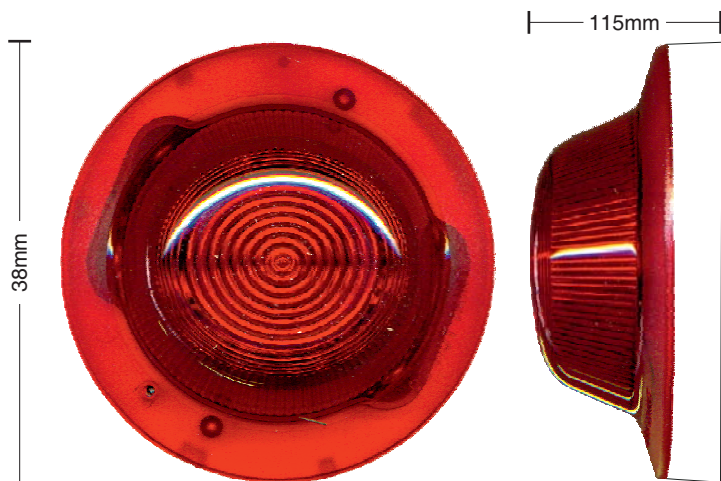
Requires base Pt No. 81203

Technical Specification

Apollo Loop Powered Beacon

Power Supply:	Loop powered
Operating voltage:	17-28V DC
Current consumption at 24V:	150 μ A quiescent 3mA beacon operated 1mA for 100ms, switch on surge
Flash rate:	1Hz
Temperature range:	-20°C to +60°C
Humidity:	0 to 95% relative (no condensation or icing)
IP Rating:	23D
Weight:	140g

Dimensions



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Key Features:

- Powerful LED combined with 100dB(A) sound output
- Two volume settings
- Synchronisation of 'alert' and 'evacuate' tones
- Individual and group addressing
- Three tone choices
- Enables DDA compliance
- Isolator option

Combined Sounder & Beacon

The Multi-Tone Open-Area Sounder Beacon is designed for use in indoor open areas and can be connected to any Discovery or XP95 system. The sounder beacon complements Apollo's intelligent and integrated base sounders as well as the loop powered 100dB(A) sounder.

Part Codes

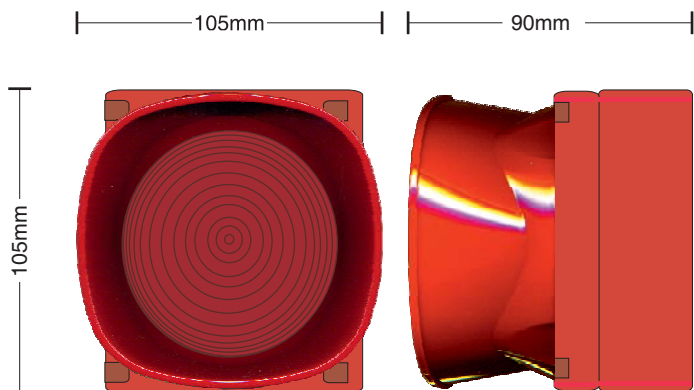
81251 Apollo Combined Sounder & Beacon
(Wall fixing)

Technical Specification

Apollo Wall Mounted Sounder & Beacon

Power Supply:	Loop powered
Sound Output:	100dB(A)
Operating voltage:	18-28V DC
Maximum Current Consumption at 24V,	
Switch-on surge:	1.2mA for <1 sec
Quiescent:	330 μ A
Operated Sounder:	9mA
Beacon flash rate:	1Hz
Temperature range:	-10°C to +55°C
IP Rating:	21C
Weight:	290g

Dimensions



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Key Features:

- Powerful LED combined with 100dB(A) sound output
- Two volume settings
- Synchronisation of 'alert' and 'evacuate' tones
- Individual and group addressing
- Three tone choices
- Enables DDA compliance
- Isolator option
- IP66 (immune to the affects of wind and precipitation)

Combined Sounder & Beacon (Weatherproof)

The Weatherproof Multi-Tone Open-Area Sounder Beacon is designed for use in outdoor open areas and can be connected to any Discovery or XP95 system.

The sounder beacon complements Apollo's intelligent and integrated base sounders as well as the loop powered 100dB(A) sounder.

Part Codes

81252 Apollo Combined Sounder & Beacon (Weatherproof)

Technical Specification

Apollo **Combined sounder & beacon (weatherproof)**

Power Supply: Loop powered

Sound Output: 100dB(A)

Operating voltage: 18-28V DC

Maximum Current Consumption
at 24V,

Switch-on surge: 1.2mA for <1 sec

Quiescent: 330 μ A

Operated Sounder: 9mA

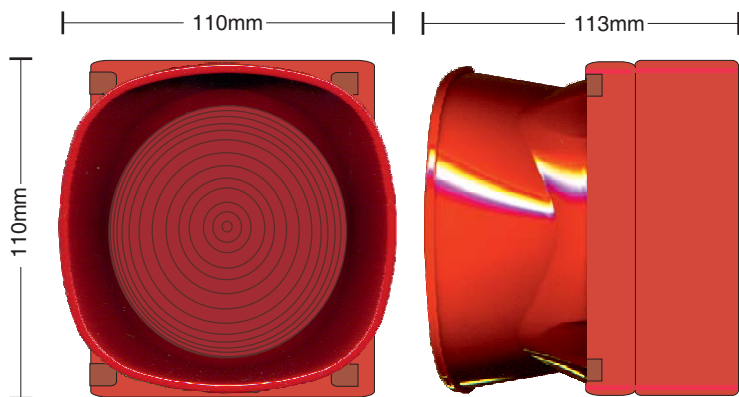
Beacon flash rate: 1Hz

Temperature range: -20°C to +70°C

IP Rating: 66

Weight: 294g

Dimensions



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Open-Area Sounder

The Intelligent Open-Area Sounder has been designed for use in open areas and can be connected to any Discovery or XP95 System.

Key Features:

- Self-test fault monitoring
- Choice of tones
- Group addressing and synchronisation of alarm
- Weatherproof IP65
- Comes with Isolating Base as standard
- Loop powered
- Output is 100dB(A) at 90°
- Ceiling mounted

Part Codes

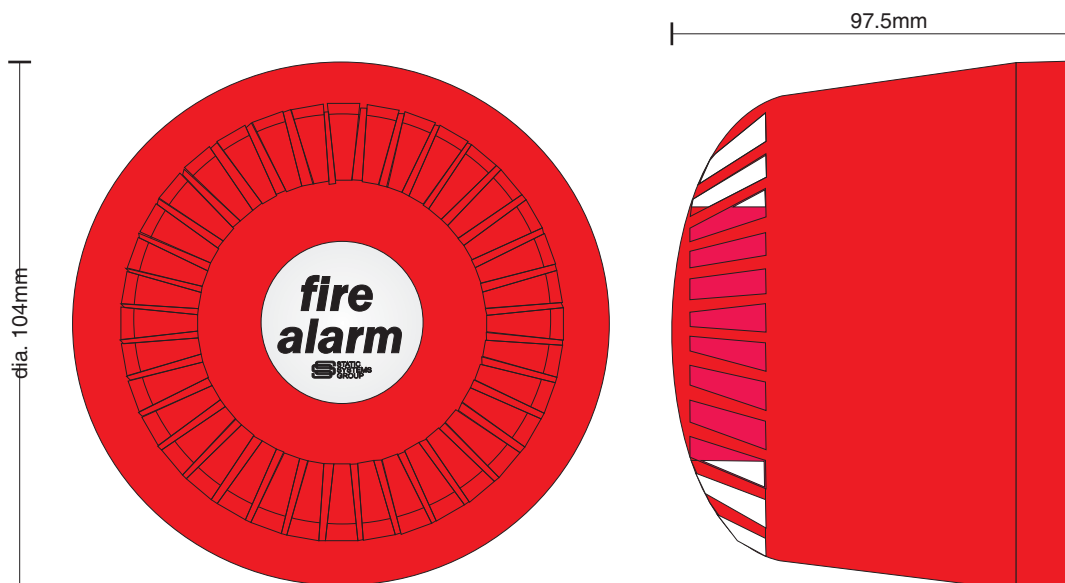
81279 Apollo Open Area Sounder

Technical Specification

Apollo Open area sounder

Power Supply:	Loop powered
Sound Output:	100dB(A)
Operating voltage:	18-28V DC
Maximum Current Consumption at 24V,	
Switch-on surge:	1.2mA for <1 sec
Quiescent:	333 μ A
Operated Sounder:	5mA
Temperature range:	-10°C to +55°C
IP Rating:	65
Weight:	225g

Dimensions



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Key Features:

- Self-test fault monitoring
- Synchronisation of alarm
- Group addressing
- Weatherproof IP65
- Comes with Isolating Base as standard
- Loop powered

Open-Area Beacon

The Intelligent Open-Area Sounder has been developed for use in situations where there is a risk that sounders will not be heard. It is weatherproof and can be used outside.

Part Codes

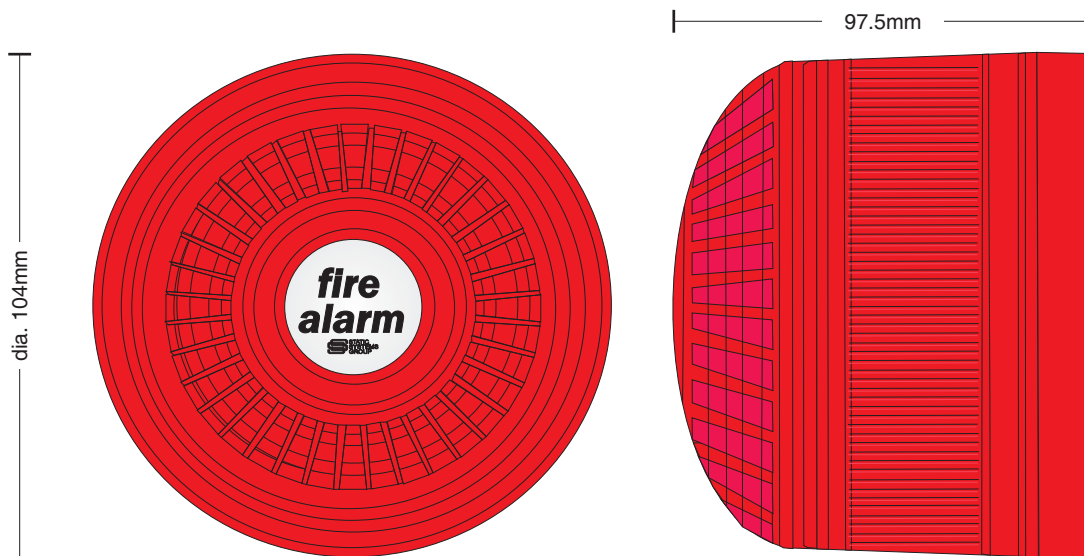
81280 Apollo Open Area Beacon

Technical Specification

Apollo Open area beacon

Power Supply:	Loop powered
Operating voltage:	18-28V DC
Maximum Current Consumption at 24V,	
Switch-on surge:	1.2mA for <1 sec
Quiescent:	333 μ A
Operated Sounder:	3.1mA
Beacon flash rate:	1Hz
Temperature range:	-10°C to +55°C
IP Rating:	65
Weight:	205g

Dimensions



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Open-Area Sounder Beacon



The Intelligent Open-Area Sounder Beacon is designed for use in open areas and can be connected to an Apollo Intelligent system.

Key Features:

- Gives two functions at one point
- Synchronisation of alarm
- Group addressing
- Weatherproof IP65
- Comes with Isolating Base as standard
- Loop powered
- Choice of tones
- Self-test fault monitoring

Part Codes

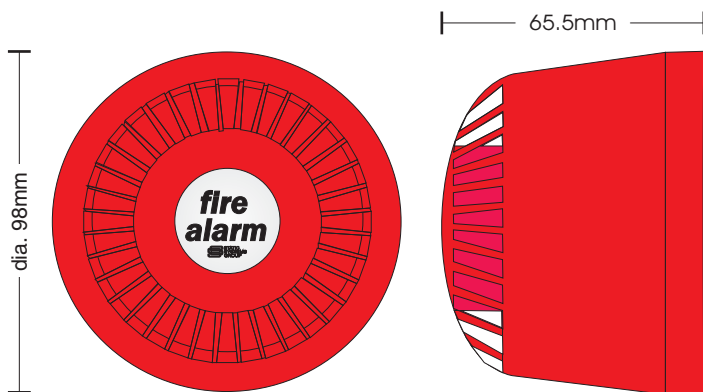
81281 Apollo Open Area Sounder Beacon

Technical Specification

Open-Area Sounder Beacon

Power Supply:	Loop Powered
Mounting:	Supplied complete with mounting base
Mounting Environment:	Internal
Operating voltage:	17-28V DC
Protocol pulses:	5-9V
Current Consumption at 24V	
Switch-on surge:	1.2mA
Quiescent:	450µA
Device at Max Vol.	8.2mA
Temperature range:	-20°C to +60°C
Humidity:	0 to 95% relative (no condensation or icing)
IP Rating:	65

Dimensions



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Key Features:

- Low current consumption - only 11mA
- Quickly and easily installed
- Excellent sonorous tone up to 100dB(A) at 1m
- Slim profile
- Fully suppressed and polarised
- Simple installation with multi-fixing base plate
- Purpose-made weatherproof range
- 24V bells certified by LPCB to EN54-3:2001
- 24V bells compliant with Construction Products Directive

Alarm Bell

The bell remains the most commonly used alarm for fire evacuation systems.

Our Bells have a very high volume output matched with extremely low power consumption - just 11mA for the 150mm internal.

The specially designed weatherproof bells have an aluminium back box giving either single or double threaded entry for maximum flexibility in installation. This is supplied as a full fixing kit with gasket and screws.

Part Codes

42026 Vimpex Alarm Bell

Note: This device is designed to be connected to a suitable 2 wire radial circuit from the control panel or addressable outstation.

Technical Specification

Alarm Bell

	6" (150mm) Internal - 24V
Rated Voltage (Vdc):	20.4-27.6
Rated current at 24V (mA):	11
Starting Voltage (Vdc):	19.2
Sound Output @ 1m (max):	96.5dB(A)
Temperature range:	-10°C to +50°C
Humidity range:	45 - 85%
Weight, with backbox:	410g

Dimensions



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Key Features:

- Modern design
- Simple installation
- Weatherproof kit option
- High sound output
- Suitable for all locations
- Easy to fit
- Provides protection up to IP33C
- Delivers up to 95dB(A)

Alarm Bell (Weatherproof)

A unique, patented alarm bell designed for use in fire, security and other signalling systems. The combination of a miniature solenoid with an integrated control circuit allows excellent sound coverage, minimum current consumption and increased reliability.

The improved aesthetics make the bell suitable for all applications including the most prestigious locations.

Part Codes

42010 Alarm Bell (Weatherproof)

Note: This device is designed to be connected to a suitable 2 wire radial circuit from the control panel or addressable outstation.

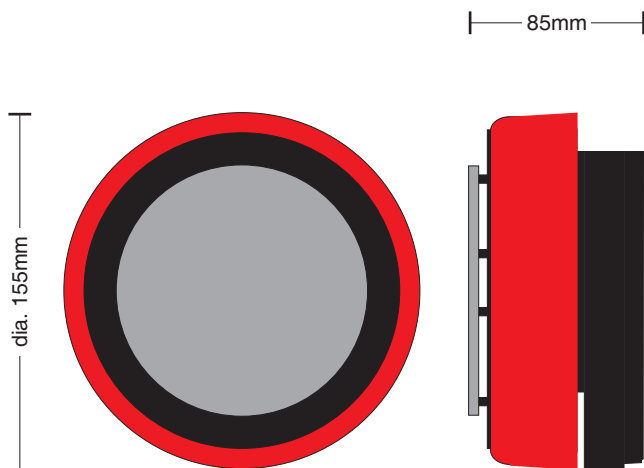
Technical Specification

Alarm Bell (Weatherproof)

(155mm)
External - 24V

Rated Voltage (Vdc):	24V
Rated current at 24V (mA):	25-35
Monitoring:	Reverse polarity (DC only)
Sound Output @ 1m (max):	95dB(A)
Temperature range:	-25°C to +70°C
Weight, with backbox:	1.1Kg
IP Rating:	IP33C

Dimensions



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Key Features:

- Wide voltage range
- Simple 'First Fix' installation
- 2 Alarm stages
- 32 tones
- Tone and volume can be preset or adjusted
- Synchronised alarm tones
- Volume control - Typical 8dB
- Certified to EN54

Sonos Sounder

With the TimeSaver base, connections are made to the base during the initial wiring phase which results in faster and more reliable installation. The sounder head 'twists and clicks' into the base on commissioning, avoiding the wiring and connection problems associated with traditional sounders.

Part Codes

42047 Sonos Sounder

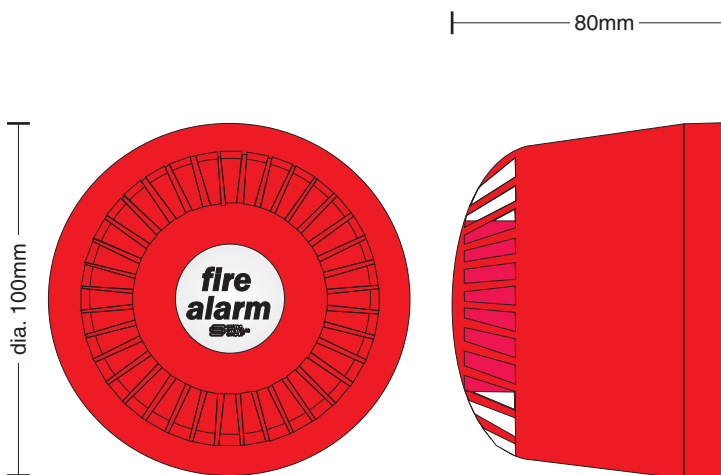
Technical Specification

Sonos Sounder

(155mm)
External - 24V

Supply Voltage Range:	9 - 60V DC
Current:	4 - 41mA
Peak Sound Level:	94 - 106dBA at 1m
Number of Tones:	32
Frequency range:	400 - 2850 Hz
Operating Temperature:	- 25°C to + 70°C
IP Rating:	IP21

Dimensions



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Key Features:

- Wide voltage range
- Simple 'First Fix' installation
- Up to 8.9m coverage
- Synchronised Flash
- No Surge Current
- Conforms to EN54-23
- Pulse Alert Technology

Sonos Beacon

With an EN54-23 approved coverage pattern of W-2.4-7.5, each Sonos Pulse wall mounted device can be mounted up to 2.4m high and can cover 7.5m x 7.5m square room with a single device.

Pulse Alert Technology enables the coverage pattern to be fixed at the optimum performance level.

Part Codes

42048 Sonos Beacon

Technical Specification

Sonos Beacon

External - 24V

Supply Voltage Range: 17- 60Vdc
Switch on Surge @ 24Vdc: <1.2mA

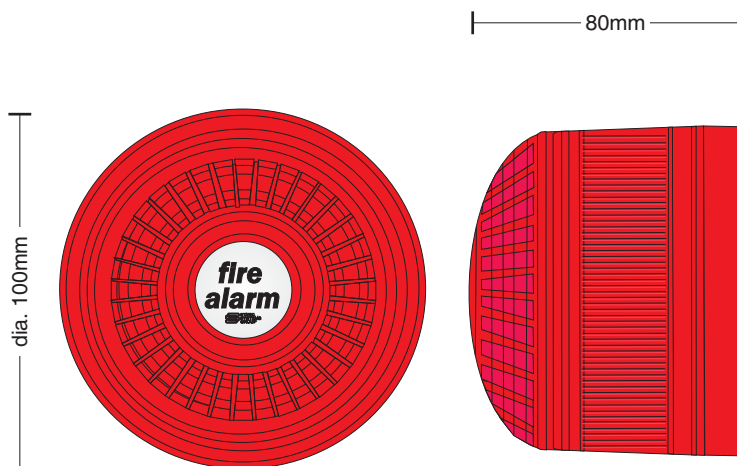
Current:
Alarm (Beacon) @ 24Vdc: 0.5Hz 20mA
Alarm (Beacon) @ 24Vdc: 1Hz 40mA

Beacon:
Flash Rate: 0.5Hz/1Hz
Flash Colour: Red
Coverage (ceiling): C-3-8.9 (186.6m³)
Coverage (wall): W-2.4-7.5 (135m³)

Environmental:
Humidity: 5% to 95%
Temperature: -25°C to +70°C
Casing: High Impact Polycarbonate
IP Rating: IP21(Shallow base)

Synchronisation: Automatic

Dimensions



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Key Features:

- Wide voltage range
- Simple 'First Fix' installation
- Up to 8.9m coverage
- Synchronised Flash
- No Surge Current
- Conforms to EN54-23
- Pulse Alert Technology
- Volume Control, typically 8dB

Sonos Sounder & Beacon

The Sonos Sounder & Beacon exceeds the illumination requirements of EN54-23. Its patented electronic design maximises system efficiency by minimising power consumption.

Up to 15m coverage volume to reduces the number of devices required. Most rooms can be protected with a single device.

Wire to Base Technology, makes installation quick and simple with mounting and wiring made only to the base, the head clicks on to the base during commissioning.

Part Codes

42049 Sonos Sounder & Beacon

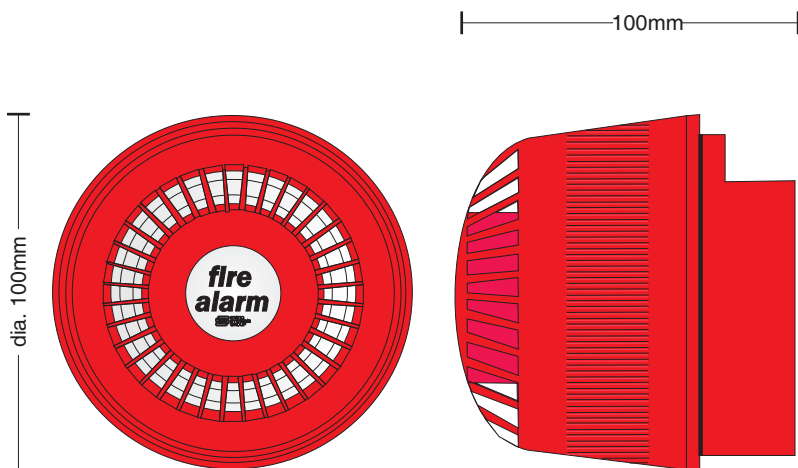
Technical Specification

Sonos Sounder & Beacon

External - 24V

Supply Voltage Range:	17- 60Vdc
Switch on Surge @ 24Vdc:	<1.2mA
Current:	
Alarm (Sounder/Beacon):	@ 24Vdc 0.5Hz 25.1mA
Alarm (Sounder/Beacon):	@ 24Vdc 1Hz 45.1mA
Sounder:	
Number of Tones:	32
Frequency Range:	400 - 2900 Hz
Beacon:	
Flash Rate:	0.5Hz/1Hz
Flash Colour:	Red
Coverage (ceiling):	C-3-8.9 (186.6m3)
Coverage (wall):	W-2.4-7.5 (135m3)
Environmental:	
Humidity:	5% to 95%
Temperature:	-10°C to +55°C
Casing:	High Impact Polycarbonate
IP Rating:	IP21(shallow base)
Synchronisation:	Automatic

Dimensions



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Key Features:

- **Anti-Ligature Detection:**
 - Suitable for secure accommodation
- **Multiple Mounting Options:**
 - Can be ceiling or wall mounted
- **Ease of Installation:**
 - XPERT card simplifies addressing
- **In-built Isolation:**
 - Built in +ve or -ve isolator
- **Various Detector Types:**
 - Can be used with various Apollo detectors
- **Extensive Product Testing:**
 - To ensure compliance with relevant standards
- **'Lip and Ridge' Arrangement:**
 - Prevents concealment of prohibited items

Anti-Ligature Detector Mounting

Designed predominantly for use in areas where care of at risk persons is provided, the device provides anti-ligature protection to ensure the safety of occupants.

The unit comprises a purpose- designed mounting base designed to accept a standard Apollo multi-criteria detector. It can be either ceiling mounted or wall mounted using an angled mounting box.

To simplify and speed up installation and commissioning, the device address is set by simply removing 'pips' on a card. The coded XPERT card is then inserted into the side of the base where it locks into position.

Utilising built in isolation, the unit can be used with the full range of Static Systems' addressable fire alarm systems.

Part Codes

81270	Pluggable Detector Base c/w -ve Isolator
81272	Pluggable Detector Base c/w +ve Isolator
81229	Discovery Multi-Criteria Detector
40313B	Ceiling Mounting Box
40314B	Angled Mounting Base



XPERT Card simplifies addressing

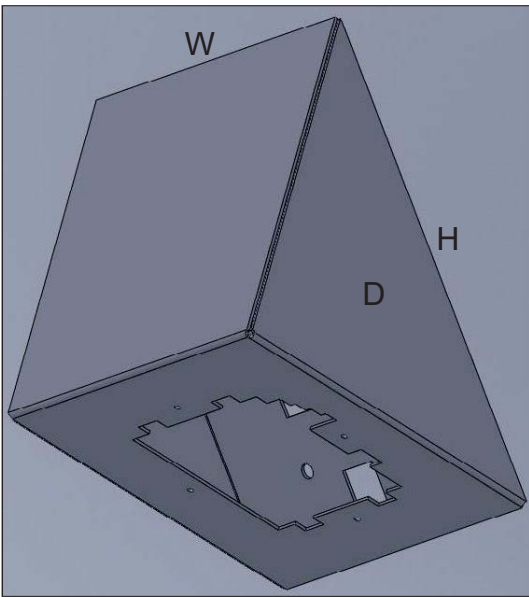
Anti-Ligature Breaking Weight:

Ceiling Mounted Box :
(Pulling at an angle of 0 degrees) 7.09kg

Wall Mounted Box :
(Pulling at an angle of 45 degrees) 3.97kg

Note: Weights are before anti-ligature detector breaks and reports 'missing' at the indicator.

Box Dimensions

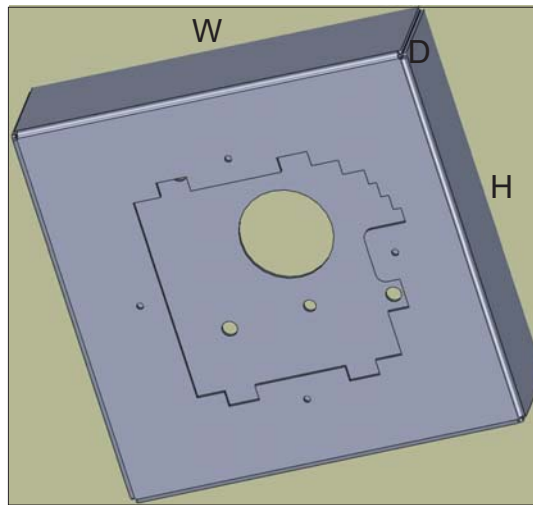


Wall Mounted Box:

H = 131mm

W = 183mm

D = 90mm



Ceiling Mounted Box:

H = 130mm

W = 130mm

D = 36mm

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Key Features:

- Manual release button
- Provided complete with keeper plate
- Rapid and easy installation
- Additional accessory products available
- Spring loaded release pin

Door Retainer 24V DC

The DRW door retainers combine good looks, high performance and economy in one low profile package.

With a flame retardant, low profile ABS plastic body. Installation is simple with knockouts provided for entry of surface mount conduit, there is ample space to connect external wiring to the 4.0mm terminals.

Each DRW door retainer is fitted with a spring loaded release pin mounted centrally within the electro-magnet. On power off, the release pin then ensures that the fire door is pushed away from the electro-magnet.

Part Codes

83000 Door Retainer Unit

Technical Specification

Door Retainer DRW-L 24V DC

24V

Supply Voltage and Tolerance: 24Vdc \pm 10%
Current Consumption: 50mA

Rated Holding Force: 200N (20.4kg)
Maximum Holding Force: 250N (25.5kg)
Residual Holding: ZERO

Release Switch: YES

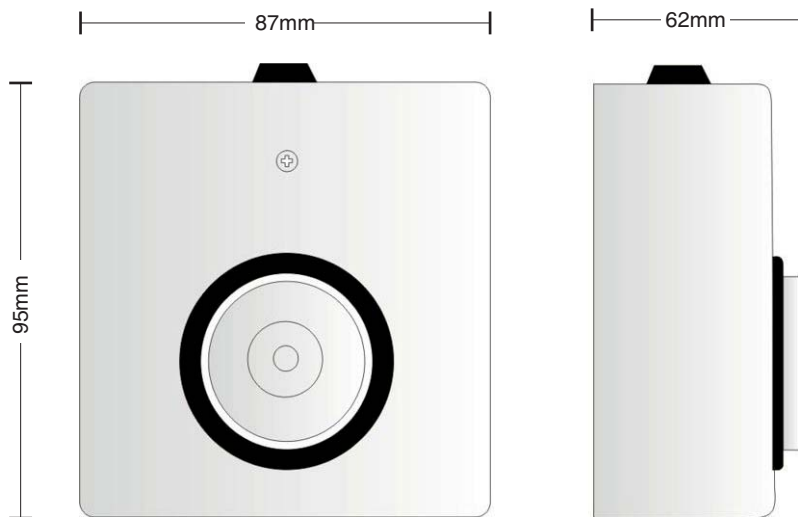
Protection: IP51

Keeper Adjustment: \pm 30 °

Weight (per unit packed): 400g
Material: ABS

Door Closer, Power Size: 3 - 6

Dimensions



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Key Features:

- Manual release button
- Provided complete with keeper plate
- Rapid and easy installation
- Additional accessory products available
- Spring loaded release pin

Door Retainer 230V AC

The DRW door retainers combine good looks, high performance and economy in one low profile package.

With a flame retardant, low profile ABS plastic body. Installation is simple with knockouts provided for entry of surface mount conduit, there is ample space to connect external wiring to the 4.0mm terminals.

Each DRW door retainer is fitted with a spring loaded release pin mounted centrally within the electro-magnet. On power off, the release pin then ensures that the fire door is pushed away from the electro-magnet.

Part Codes

83003 Door Retainer Unit

Technical Specification

Door Retainer DRW-M 230V AC

internal - 230V

Supply Voltage and Tolerance: 230Vac \pm 10%
Current Consumption: 12mA

Rated Holding Force: 200N (20.4kg)
Maximum Holding Force: 250N (25.5kg)
Residual Holding: ZERO

Release Switch: YES

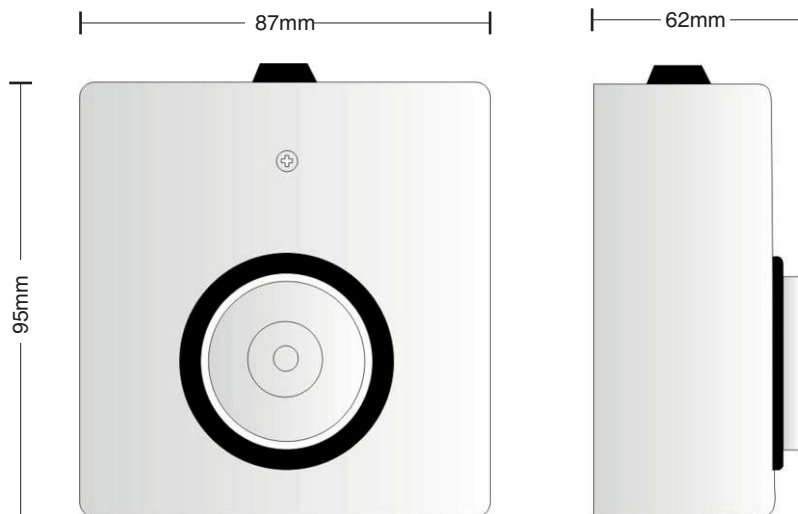
Protection: IP51

Keeper Adjustment: \pm 30 °

Weight (per unit packed): 400g
Material: ABS

Door Closer, Power Size: 3 - 6

Dimensions



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Floor Mounting Bracket



This bracket enables the DRW series of door retainers to be converted to a floor mounted door retainer.

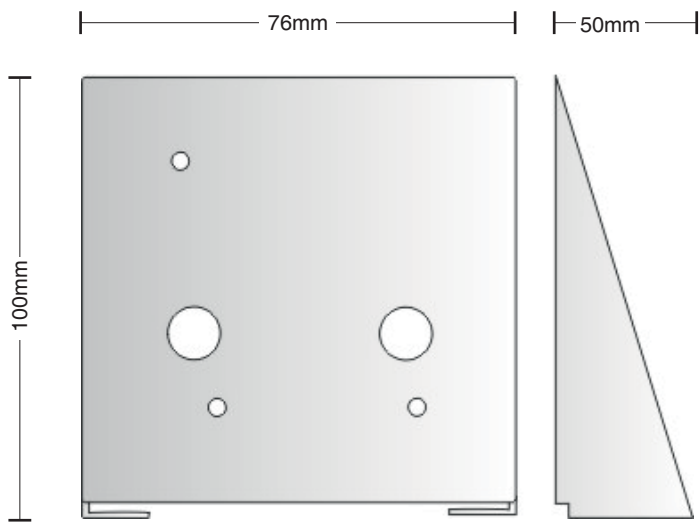
Key Features:

- Manual release button
- Provided complete with keeper plate
- Rapid and easy installation
- Additional accessory products available
- Spring loaded release pin

Part Codes

83004 Floor Mounting Bracket

*For use with Door Retainers
part no. 83000 & 83003*



Dimensions

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Key Features:

- Steel rack and pinion mechanism, heat treated for strength and durability
- Separate latch action and closing speed adjustment provides total accuracy of adjustment of the full closing cycle
- Pressure die cast aluminium body
- Designed and fully compliant with EN 1154 and EN 1155 for electrically controlled closing devices

Door Closer/Hold-open Unit

The Briton 996 Series incorporates an integrated electromagnetic hold-open mechanism which, when connected to the building's fire alarm and detection system, can be set to either 'hold-open' or 'swing-free' operation.

In either case the spring power of the door control is electronically disengaged to allow free passage. When de-activated the electromagnet releases and the door is allowed to close in the normal manner to maintain fire integrity.

The Briton 996 Series is ideal for use in areas where a conventional door control would hinder, or worse, bar access to the user.

Part Codes

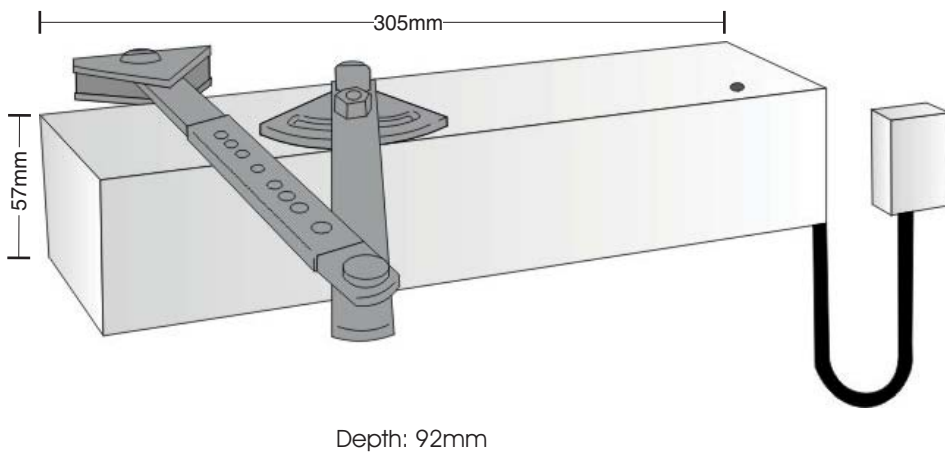
83007 Door Closer Unit

Technical Specification

Door Hold-open/Closer Unit

Operating Voltage:	24V DC
Current Consumption:	90mA nominal
Angle of door hold:	85° - 95° / 103° - 110°
Max Door Weight:	60Kg
Max Door Width:	950mm
Colour:	Silver, with black arms
Corrosion Resistance:	High
Power supply via:	Armoured cable loop
Maximum frame projection:	20mm Swing free operation 30mm Hold open operation

Dimensions



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Key Features:

- 2.5A version can power up to 50 door release units
- Fully powder coated, Zintec steel enclosure. (RAL 7012)

Door Release Power Supply

The Door Release Power supply converts an input voltage between 90-264V AC into 24V DC to power door release mechanisms.

It is available in two different versions depending upon the capacity required.

Part Codes

83016 Door Release Power Supply 1.25A

83017 Door Release Power Supply 2.5A

Door Hold-open/Closer Unit

This item is available in two versions depending on capacity required:

83016 (maximum load current 1.25A)

83017 (maximum load current 2.5A)

Input voltage: 90-264V AC
Input current: 0.2A
Output Voltage: 24V DC

Maximum Load Current: 1.25A (83016) 2.5A (83017)
Internal Fuses: 1.6A / 3.15A
Internal PSU may vary in size

Enclosure Details:

The box and front plate are both manufactured in 1.5mm Zintec and finished in powder coat RAL 7012.

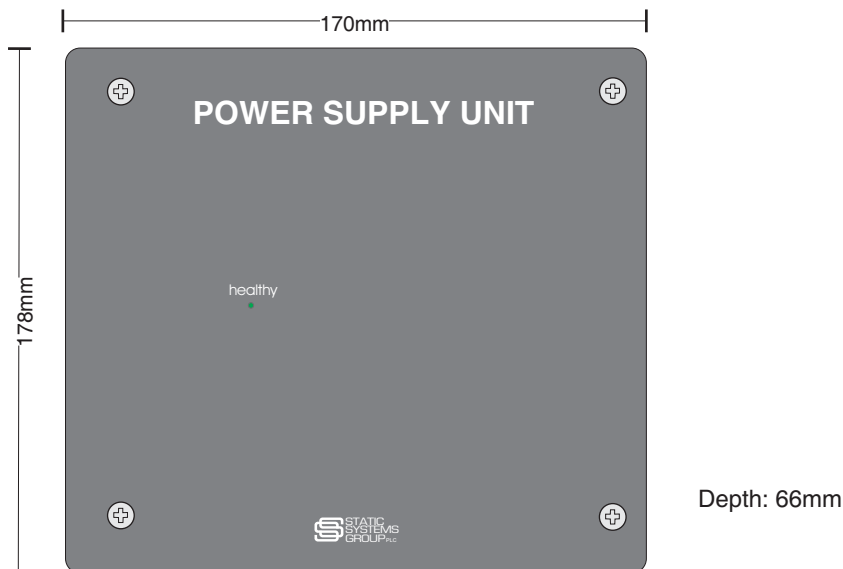
Enclosure size: 170x178x66mm
Mounting: Surface

Door Detent Information:

83000 – Door Release Unit:
Voltage – 24V / Current – 50mA
25 x 83000 per 83016
50 x 83000 per 83017

83007 – Door Hold Unit:
Voltage – 24V / Current – 71mA nom
17 x 83007 per 83016
34 x 83007 per 83017

Dimensions



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Key Features:

- Supervises one or more normally-open switches connected to a single pair of cables
- Three visible LEDs
- Capable of switching 250V AC at up to 5A

Input / Output Outstation (Mains)

The Mains Switching Input/Output Unit provides a voltage-free, single pole change-over relay output and a monitored switch input.

Part Codes

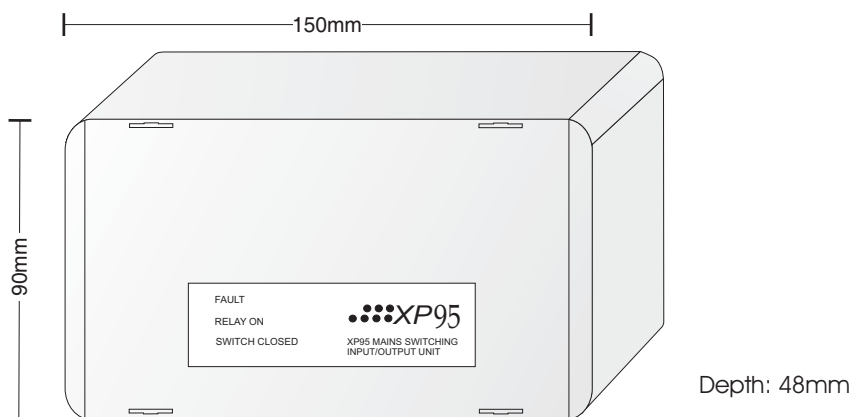
81238 Apollo Input / Output Outstation (Mains)

Technical Specification

Input/Output Outstation

Power Supply:	Loop powered
Operating voltage:	18-28V DC
Maximum Current Consumption at 24V, LED Enabled	
Switch-on surge:	3.5mA for <150ms sec
Quiescent, 20k Ω EOL fitted:	1.25mA
'Switch closed' LED on:	2.5mA
Any other condition, Max 2 LEDs on:	2mA
LED Disabled	
Switch-on surge:	3.5mA
Quiescent, 20k Ω EOL fitted:	1.2mA
Switch input closed:	1.5mA
Any other condition:	2mA
Rated load (Resistive):	5A at 250V AC 2A at 48V DC
Max Switching capacity:	1.25kVA
Max cable resistance:	50 Ω
Switch input monitoring:	9-11V
Temperature range:	-20 $^{\circ}$ C to +70 $^{\circ}$ C
IP Rating:	54
Weight:	240g

Dimensions



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Key Features:

- Capable of switching up to 30V at 1A resistive
- Monitored
- Four input states: 'normal', 'fault', 'pre-alarm' and alarm'
- Two visible LEDs
- Loop powered

DIN-Rail Switch Monitor

The DIN-Rail Switch Monitor is designed to monitor the state of one or more single pole, volt free contacts connected on a single pair of cables and to report the status to Apollo compatible analogue control equipment.

Part Codes

81234 Apollo DIN Rail Input Outstation (Mains)

This module requires a Mounting enclosure:

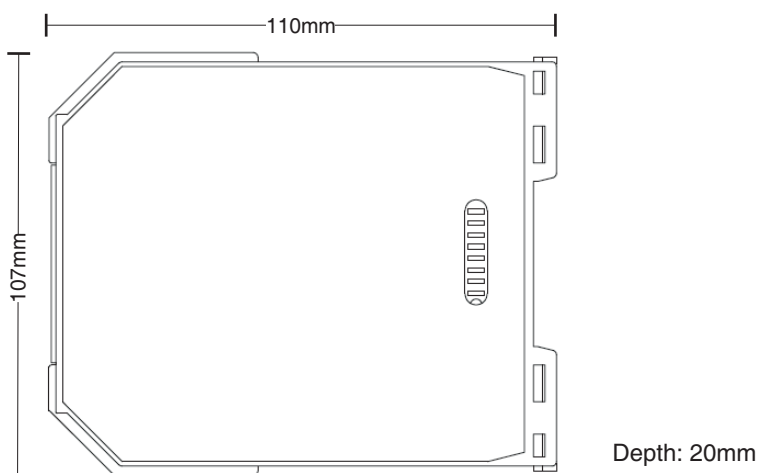
39196 DIN rail Outstation Enclosure (accommodates up to 10 Modules)

Technical Specification

DIN-Rail Input

Power Supply:	Loop powered
Current Consumption at 24V:	730 μ A quiescent 3.5mA input short circuit 2.5mA power-up surge 1.3mA LED off, switch input closed 3.4mA LED on, switch input closed 5.6mA LED on, switch input s/c
Operating voltage:	17-28V DC
Switch input Voltage:	9-11V
Max cable resistance:	50 Ω
Temperature range:	-20 $^{\circ}$ C to +70 $^{\circ}$ C
Humidity:	0 to 95% relative (no condensation or icing)
Vibration , Impact and Shock:	to EFGS/F/95/007
IP Rating:	20
Weight:	95g

Dimensions



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DIN-Rail Output Unit

The DIN-Rail Output Unit provides a voltage-free single pole, change-over relay output. It is a simplified version of the Input/Output unit, without circuitry for monitoring inputs



Key Features:

- Capable of switching up to 30V at 1A resistive
- Non-monitored

Part Codes

81235 Apollo DIN Rail Output Outstation Module

This module requires a Mounting enclosure:

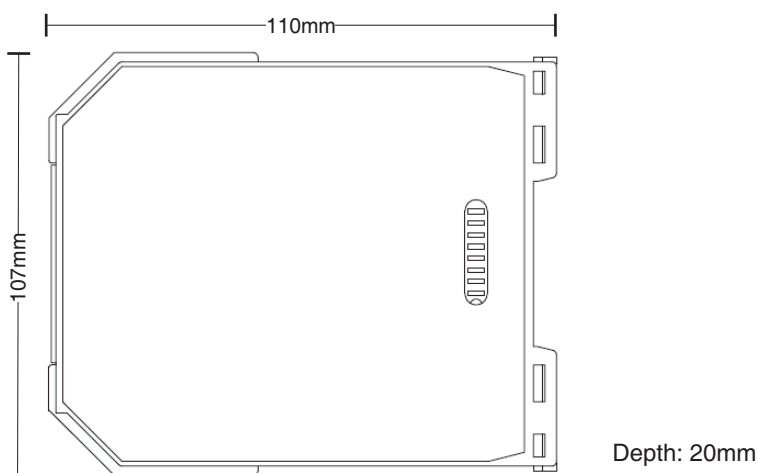
39196 DIN rail Outstation Enclosure
(accommodates up to 10 Modules)

Technical Specification

DIN-Rail Output

Relay output contact rating at 30V AC or DC, max:	1A (inductive or resistive)
Relay output wetting current at 10mV DC:	10 μ V
Current Consumption at 24V:	720 μ A quiescent 3mA power-up surge 3.3mA (LED enabled) relay operated 720 μ A (LED disabled) relay operated
Operating voltage:	17-28V DC
Switch input Voltage:	9-11V
Max cable resistance:	50 Ω
Temperature range:	-20 $^{\circ}$ C to +70 $^{\circ}$ C
Humidity:	0 to 95% relative (no condensation or icing)
Vibration , Impact and Shock:	to EFSG/F/95/007
IP Rating:	20
Weight:	95g

Dimensions



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DIN-Rail Dual Isolator

The DIN-Rail Dual Isolator provides two independent Isolators which sense and isolate short circuits on Discovery or XP95 loops and spurs.



Key Features:

- Loop powered
- Polarity sensitive
- Up to 20 detectors can be installed between isolators
- Allows fully isolated spurs

Part Codes

81236 Apollo DIN Dual Isolator Module

This module requires a Mounting enclosure:

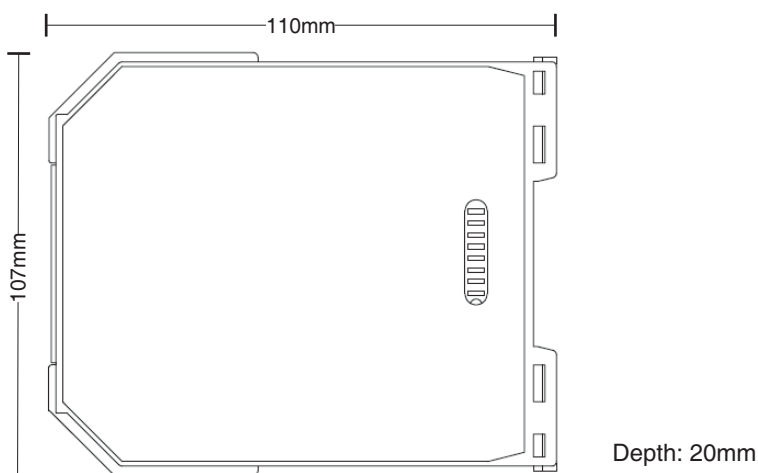
39196 DIN rail Outstation Enclosure
(accommodates up to 10 Modules)

Technical Specification

DIN-Rail Dual Isolator

Maximum supply voltage:	30V DC + 9V Protocol pulses
Volt drop:	10mV at 50mA 100mV at 500mA
Switch-on voltage:	Input 17.5V Output 15V
Switch-on time (to step):	30mS with 2k Ω load at 18V
Isolation time:	20 μ S, 2 Ω load at 28V
Isolating Voltage:	14V DC
Temperature range:	-20 $^{\circ}$ C to +60 $^{\circ}$ C
Humidity:	0 to 95% relative (no condensation or icing)
Isolation indicator:	Yellow LED lit continuously in isolation condition
Current Consumption:	27 μ A at 18V 47 μ A at 28V 4mA at 18V and adjacent sector isolated
Maximum line current:	1.0A non-isolating continuous 3.0A transition into isolation
On resistance:	0.2 Ω
Reset resistance at 18V:	300 Ω with short after next isolator
Design Environment:	Indoor usage only
Weight:	90g

Dimensions



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The DIN-Rail Sounder Controller (5 Amperes) is used to control the operation of a zone of externally powered sounders and report their status to the control panel.

Key Features:

- Capable of switching up to 30V at 1A resistive
- Monitored
- Allows sounders to be operated continuously or be pulsed, 1 second on, 1 second off
- May be synchronised when in pulsed operation
- An upto-coupled input is provided to monitor the state of the external power supply
- Sounders can be operated individually or in groups
- Will accept a load of 5 amperes

Part Codes

81237 Apollo DIN Sounder Outstation Module

This module requires a Mounting enclosure:

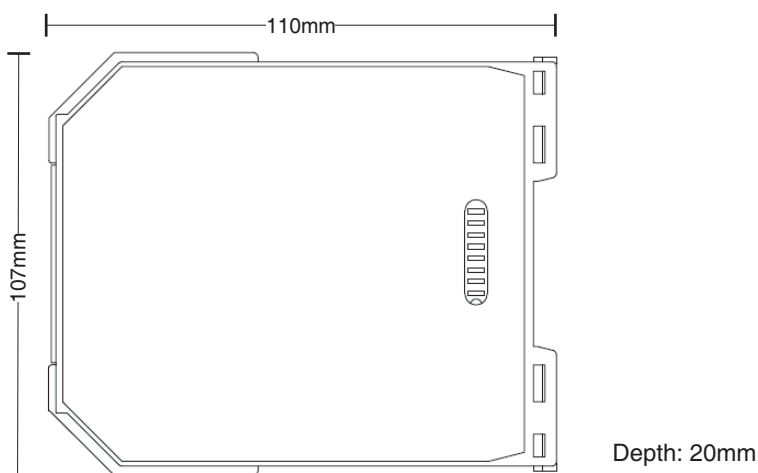
39196 DIN rail Outstation Enclosure
(accommodates up to 10 Modules)

Technical Specification

DIN-Rail Sounder Outstation

Loop voltage:	17-28V DC
Current consumption at 24V:	1.9mA quiescent 1.7mA max. Sounders operated 3.5mA power-up surge 3.6mA fault (yellow LED on) 4.5mA Sounder line short circuit LED enabled 2.7mA Sounder line short circuit LED disabled
Current Consumption, external supply:	Relay off: 1mA at 12V 3mA at 35V Sounders and red LED on: 44mA at 12V (+ sounder load) 47mA at 35V (+ sounder load)
Sounder output monitoring voltage:	10-12V DC (open circuit condition)
Sounder circuit voltage:	12-35V
Sounder circuit current max:	5A at 35V DC (resistive load)
Operating temperature:	-20°C to +70°C
Humidity:	0-95% (no condensation)
IP Rating:	20
Weight:	95g

Dimensions



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DIN-Rail Input/Output Unit



The DIN-Rail Input/Output Unit provides a voltage free, single pole, change-over relay output, a single, monitored switch input and an unmonitored, non-polarised opto-coupled input.

Key Features:

- Monitored input / Non-monitored output
- It can report fault, switch open and switch closed levels
- Three visible LEDs
- Loop powered
- Voltage free
- Capable of switching up to 30V at 1A

Part Codes

81240 Apollo DIN Rail Input/Output Outstation Module

This module requires a Mounting enclosure:

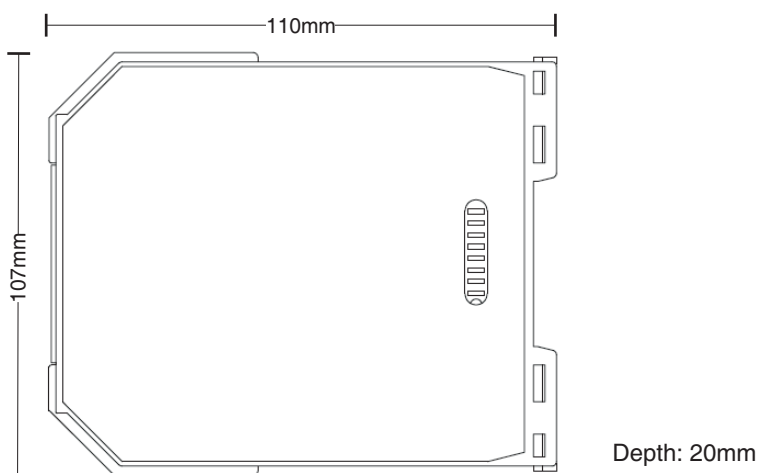
39196 DIN rail Outstation Enclosure (accommodates up to 10 Modules)

Technical Specification

DIN-Rail Sounder Outstation

Loop voltage:	17-28V DC
Current consumption at 24V:	1.2mA quiescent 20k Ω EOL fitted 3.5mA power-up surge 6mA switch input s/c max (LED on) 2.2mA LEDs disabled 4.5mA Any other condition (max 2 LEDs on)
Switch input monitoring voltage:	9-11V DC (open circuit condition)
Opto-coupled input:	35V DC Voltage max 10k Ω impedance
Relay output contact rating at 30V AC or DC:	Max 1A (inductive or resistive)
Relay output wetting current at 10mV DC:	min 10 μ A
Operating temperature:	-20 $^{\circ}$ C to +70 $^{\circ}$ C
Humidity:	0-95% (no condensation)
IP Rating:	20
Max cable resistance:	50 Ω
Weight:	95g

Dimensions



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DIN-Rail Zone Monitor

The Zone monitor powers and controls the operation of a zone of up to 20 Apollo Series 65 or Orbis fire detectors from a Discovery or XP95 loop



Key Features:

- Loop powered
- Visible short circuit LED
- Built in Isolator
- Capable of switching up to 30V at 1A resistive
- Monitored

Part Codes

81244 Apollo DIN Rail Zone Outstation Module

This module requires a Mounting enclosure:

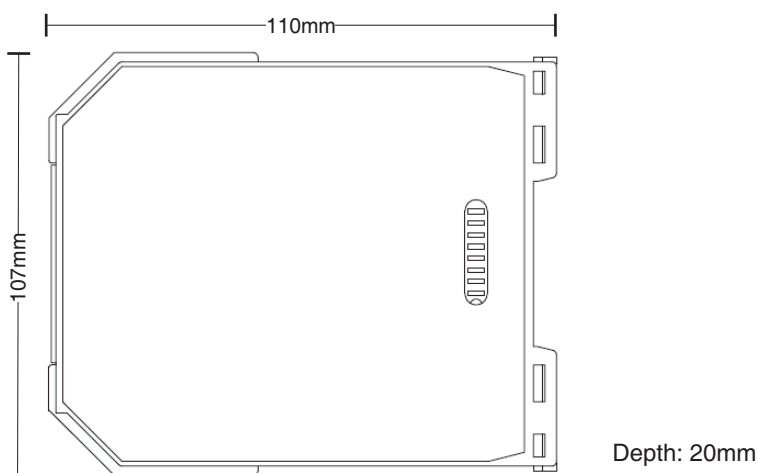
39196 DIN rail Outstation Enclosure (accommodates up to 10 Modules)

Technical Specification

DIN-Rail Zone Module

Loop voltage:	17-28V DC
Current consumption at 24V:	1.9mA quiescent 1.7mA max. Sounders operated 3.5mA power-up surge 3.6mA fault (yellow LED on) 4.5mA Sounder line short circuit LED enabled 2.7mA Sounder line short circuit LED disabled
Current Consumption, external supply:	Relay off: 1mA at 12V 3mA at 35V Sounders and red LED on: 44mA at 12V (+ sounder load) 47mA at 35V (+ sounder load)
Sounder output monitoring voltage:	10-12V DC (open circuit condition)
Sounder circuit voltage:	12-35V
Sounder circuit current max:	5A at 35V DC (resistive load)
Operating temperature:	-20°C to +70°C
Humidity:	0-95% (no condensation)
IP Rating:	20
Weight:	95g

Dimensions



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