PRODUCT CATALOGUE

ABOUT

From the land to the sea, Haes has you covered with a leading range of fire system products which are manufactured in the UK and used worldwide.

Haes is ISO9001 certified with additional industry and product accreditations from bodies including LPCB, BSI, MED, Lloyds Register & ABS. With over 45 years experience in the fire industry, the team are focused on helping installers and planners to choose, install and manage fire alarm systems.

Our team of designers, engineers and production specialists constantly innovate the latest fire industry technology, backed by dedicated customer advisers that are on-hand to provide support and guidance.

- ✓ UK Manufacturer
- ✓ Internal R&D department
- ✓ Comprehensive range of products
- ✓ Quality assured with our unique triple testing products
- ✓ Feature rich products designed with the engineer in mind
- ✓ Technical Support

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ADDRESSABLE CONTROL PANELS

bsi.
Fire Detection
and Alarm Systems
KITEMARK™

ESPRIT-A 1 - 2 LOOPS

Auto-learn Function | Event Log | False Alarm Management | Loop Fault Diagnosis

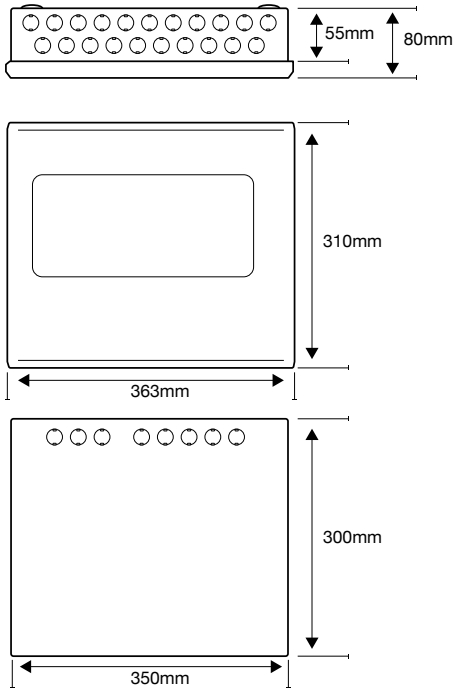
ESPRIT®

The Esprit-A 1-2 loop analogue addressable control panels have been developed to provide a simple to use and cost effective, robust solution for the intelligent fire systems market.

The large graphical display with easy to navigate menus provide fast and simple setup and maintenance.

MAIN FEATURES

- One to two loops
- Large graphical display
- Auto learn function
- 240 devices per loop - Argus Protocol
- False alarm management
- 64 programmable groups
- 18 zonal LEDs
- 255 date & time stamped event logs
- Loop fault diagnosis - Argus Protocol



Technical Specification	
Enclosure	1.2mm Mild Steel IP30. Colour ref MW334E Interpon Powder coat
Mains Supply	Universal switch mode PSU, 1.2A
Battery Capacity	Up to 7Ah 24V VRLA
Loop	Argus Protocol. Up to 2 loops. Each loop - 500mA maximum current
Sounder Circuits	2 x 400mA 21-28vdc
Auxiliary Supply	400mA aux supply output (21-28vdc)
Switch Inputs	Class change & alert (pulsing)
Event Log	255 events, time & date stamped
Display	240 x 64 Graphical LCD backlit

Order Codes	
ESA-1001	One loop analogue addressable control panel (extendable to two loops) - Argus protocol

Accessories	
ESA-3001	Loop extension card - Argus protocol
FMK-ES-01	Recessing bezel

Technical Specification

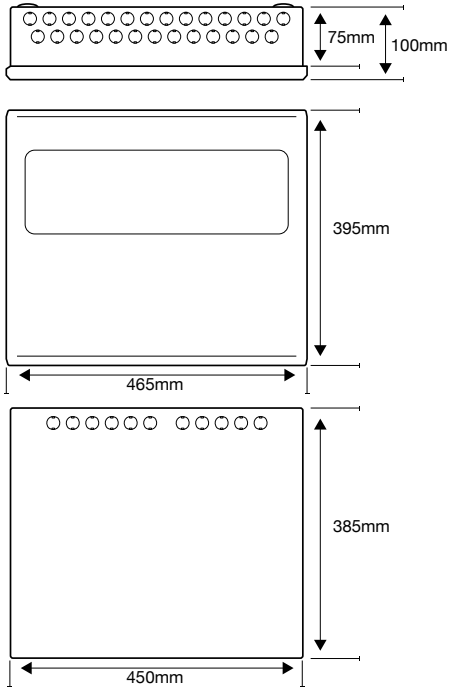
Enclosure	1.2mm Mild Steel IP30. Colour ref MW334E Interpon Powder coat
Mains Supply	Universal switch mode PSU, 3.4A
Battery Capacity	Up to 18Ah 24V VRLA
Loop	Argus Protocol. Up to 4 loops. Each loop - 500mA maximum current
Sounder Circuits	2 x 400mA 21-28vdc
Auxiliary Supply	400mA aux supply output (21-28vdc)
Switch Inputs	Class change & alert (pulsing)
Event Log	255 events, time & date stamped
Display	240 x 64 Graphical LCD backlit

Order Codes

ESA-1002	One loop analogue addressable control panel (extendable to four loops) - Argus protocol

Accessories

ESA-3001	Loop extension card - Argus protocol
FMK-ES-02	Recessing bezel



Auto-learn Function

Event Log

False Alarm Management

Loop Fault Diagnosis

ESPRIT®

ESPRIT-A 1 - 4 LOOPS

The Esprit-A 1-4 loop analogue addressable control panels have been developed to provide a simple to use and cost effective, robust solution for the intelligent fire systems market.

The large graphical display with easy to navigate menus provide fast and simple setup and maintenance.

MAIN FEATURES

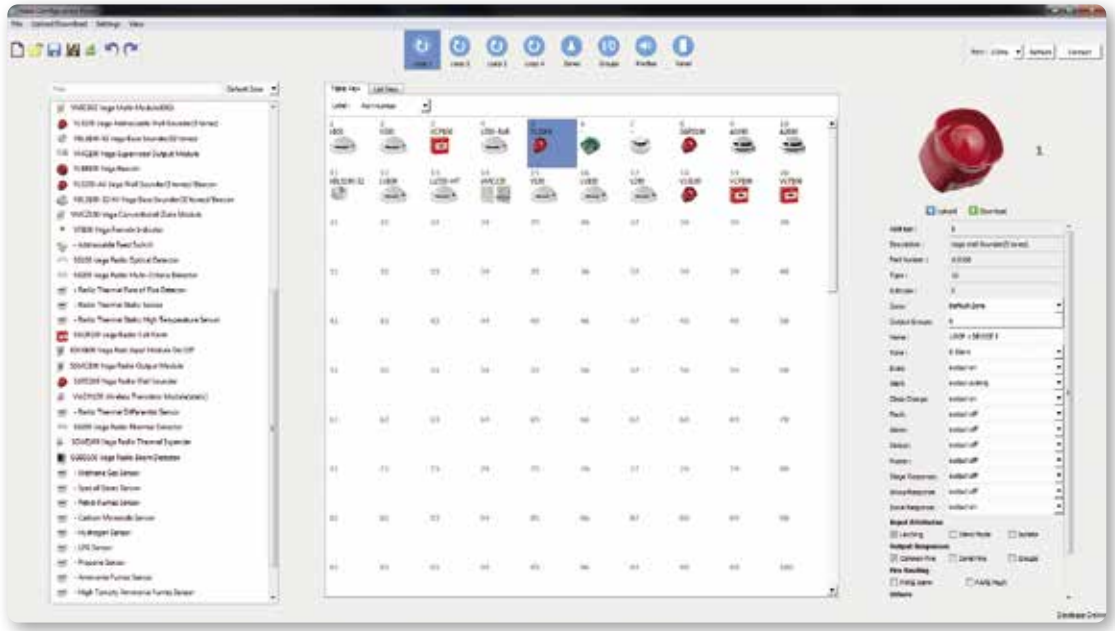
- One to four loops
- Large graphical display
- Auto learn function
- 240 devices per loop - Argus Protocol
- False alarm management
- 64 programmable groups
- 36 zonal LEDs
- 255 date & time stamped event logs
- Loop fault diagnosis - Argus Protocol

ESPRIT-A PROGRAMMING

ESPRIT®

Windows based programming and configuration software. Software is downloadable and requires a standard USB cable for upload/download.

Simple drag and drop action and all details are displayed on one screen.



MAIN FEATURES

- Quick 'drag and drop' action
- Easy for engineers to program
- 64 cause & effect groups
- Simple device selection
- All device information on one screen
- Uses standard USB cable
- Software available for download

CONVENTIONAL CONTROL PANELS

ESENTO ECLIPSE

Twin Wire

One Man Walk Test

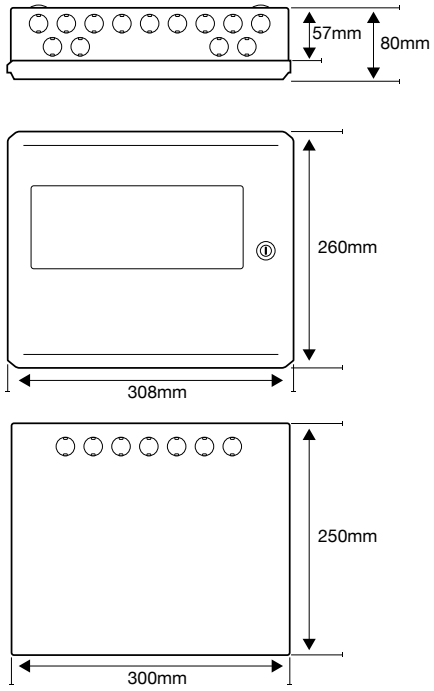
ESENTO®

LOGO

The Esento Eclipse is a 2-4 zone conventional or Twin Wire fire control panel. Even as the entry level panel from Haes, the Eclipse encompasses all of our usual quality & reliability and offers a selection of the most popular Esento features & programming options.

MAIN FEATURES

- 2 or 4 zones
- Twin Wire selection by DIL switch
- False alarm management mode
- One man walk test
- Non latching zones
- Class change inputs



Technical Specification	
Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Mains Supply	1.25A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 3.2Ah 12v VRLA
Detection Zones	2 or 4. EOL = 4K7R
Sounder Circuits	2 x monitored, fused @500mA. EOL = 4K7R
On Board Relays	1 x Fire, 1 x Fault, 3A, 30v volt free changeover
Outputs	1 x Fire, 1 x Fault 40mA switch -ve outputs
Switch Inputs	Class change & alert (pulsing)
False Alarm Management	Type A dependency mode, approved by LPCB

Order Codes	
ECL-2	2 zone
ECL-4	4 zone

Accessories	
FMK-ECL	Recessing bezel

Technical Specification

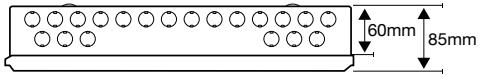
Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Mains Supply	3A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 7Ah 12v VRLA
Detection Zones	2, 4, 6, 8 or 12. EOL = 4K7R
Sounder Circuits	2 on main circuit board plus 2 additional sounder circuits provided on high spec zone card, monitored, fused @500mA. EOL = 4K7R
Networking	Up to 8 control panels, fault tolerant RS485 communication, requires TPCA05 network card
On Board Relays	2 x programmable, 3A, 30v volt free changeover, additional relay provided on high spec zone card
Outputs	2 x programmable, 40mA switch -ve, 2 additional outputs provided on high spec zone card
Switch Inputs	Class change & alert (pulsing)
False Alarm Management	Type A, B & C dependency modes, approved by LPCB
Delay Timer	On board programmable delay timer 1 -10 mins

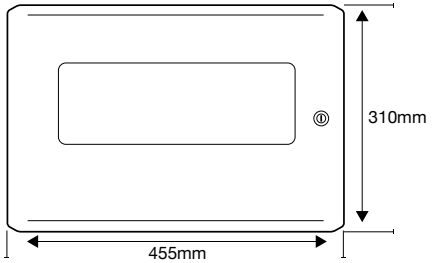
Order Codes

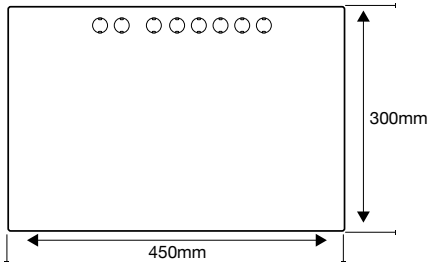
XLEN-2	2 zones, 2 sounder circuits
XLEN-4	4 zones, 2 sounder circuits
XLEN-6	6 zones, 2 sounder circuits
XLEN-8	8 zones, 4 sounder circuits
XLEN-12	12 zones, 4 sounder circuits

Accessories

FMK-XLEN	Recessing bezel
TPCA04-S	4 zone std expansion card
TPCA04-H	4 zone high spec expansion card
TPCA05	Network comms card
OPCARD-8	8 way relay/output card







Suitable for Repeater Panels and RDU

Networking

One Man Walk Test

Twin Wire

CAN BE SUPPLIED WITH YOUR LOGO FITTED · FREE SERVICE · LOGO

ESENTO®

ESENTO EXCEL

The Esento Excel panel is available from 2 to 12 Conventional and/or Twin Wire (sav-wire) zones. All inputs and outputs are fully programmable. The panels include networking as standard across all Excel & Evoque panels plus 3 different modes to help reduce false alarms.

MAIN FEATURES

- 2 - 12 zones
- Zonal Twin Wire selection by DIL switch
- Network up to 8 control panels
- Output delay timer
- False alarm modes A, B & C
- Modular expansion cards
- Fully functional repeaters available

ESENTO EVOQUE

One Man Walk Test

Networking

Suitable for Repeater Panels and RDU

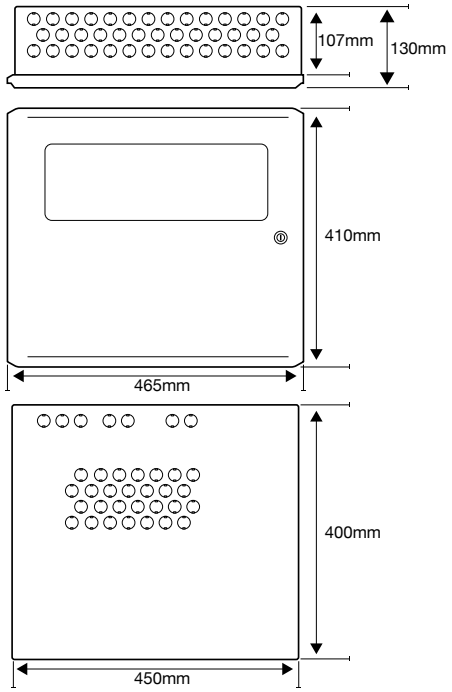
ESENTO®

CAN BE SUPPLIED WITH YOUR LOGO FITTED · FREE SERVICE · LOGO

The Esento Evoque is our large zone panel offering and is available from 16-32 Conventional zones (No Twin Wire) in a single cabinet. The panels offer a large range of Esento programming features and include networking as standard across all Evoque & Excel panels.

MAIN FEATURES

- 16 - 32 zones
- Network up to 8 control panels
- Output delay timer
- False alarm modes A, B & C
- Fire alarm routing output
- Fully functional repeaters available



Technical Specification

Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Mains Supply	5A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 18Ah 12v VRLA
Detection Zones	16, 24 or 32. EOL = 4K7
Sounder Circuits	4 x monitored, fused @500mA. EOL = 4K7
Networking	Up to 8 control panels, fault tolerant RS485 communication, requires TPCA05 network card
On Board Relays	2 x programmable, 3A, 30v volt free changeover
Outputs	4 x programmable 40mA switch -ve outputs
Switch Inputs	Class change, alert (pulsing), silence alarms & reset
False Alarm Management	Type A, B & C dependency modes, approved by LPCB
Delay Timer	On board programmable delay timer 1 -10 mins

Order Codes

XL32-16	16 zone
XL32-24	24 zone
XL32-32	32 zone

Accessories

FMK-XL32	Recessing bezel
TPCA05	Network comms card
OPCARD-8	8 way relay/output card

Technical Specification

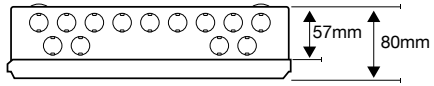
Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Mains Supply	1.25A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 3.2Ah 12v VRLA
Outputs	6 x programmable sw -ve outputs (included on network card)
Switch Inputs	Class change & alert (pulsing)
Communication Wiring	Fault tolerant wiring requires 4 core (min 1.5mm) fireproof cable Legacy radial wiring requires 2 core (min 1.5mm) fireproof cable
Compatiblity	Suitable for all Excel & Evoque control panels (up to 12 zones)

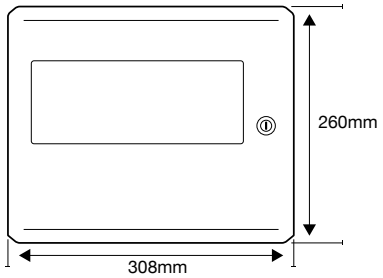
Order Codes

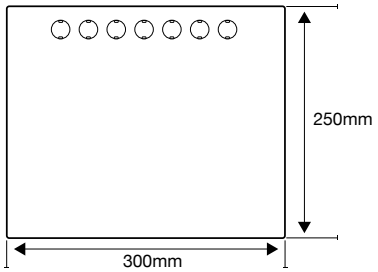
XLEN-R-12	12 zone repeater

Accessories

FMK-ECL	Recessing bezel







Use with Excel & Evoque control panels

ESENTO REPEATER

ESENTO®

The Esento repeater panel is fully functional with 'Silence', 'Resound' and 'Reset' controls, as well as Disable and Test Mode functions. It is also possible to disable the controls for each or all repeater panels to make them passive (indication only).

MAIN FEATURES

- 12, zonal, fire & fault indications
- Up to 8 repeaters on a network
- Fault tolerant or legacy radial communication wiring
- 6 x programmable switch -ve outputs included on network card
- Class change inputs
- Fully functional or passive
- Test mode & disablement function controls

ESENTO REMOTE DISPLAY

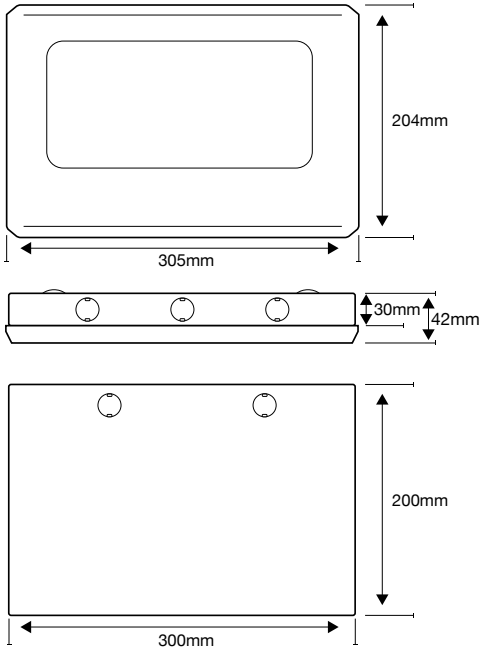
Use with Excel & Evoque control panels

ESENTO®

The Esento remote display unit has a 4 line, 40 character LCD display and can display all fires and faults as well as control; silence alarms, reset, test mode and disablements across an entire network.

MAIN FEATURES

- 4 x 40 character LCD display
- Up to 8 RDUs on a network
- Full system control across network
- Programmable zone text
- Fully functional or passive
- PSU fault inputs



Technical Specification	
Enclosure	Enclosure 1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Display	4 x 40 character backlit LCD display
Input Voltage	Requires 24v dc supply
Inputs	Optional key switch input
Outputs	1 x Fire, 1 x Fault 24v dc outputs
Communication Wiring	Fault tolerant wiring requires 4 core (min 1.5mm) fireproof cable Legacy radial wiring requires 2 core (min 1.5mm) fireproof cable

Order Codes	
XL-RDU	Remote display unit

Accessories	
FMK-ES-03	Recessing bezel

MARINE APPROVED CONTROL PANELS

APPROVED
TYPE APPROVAL SCHEME

ABS
TYPE APPROVED PRODUCT

ESENTO MARINE 2-4

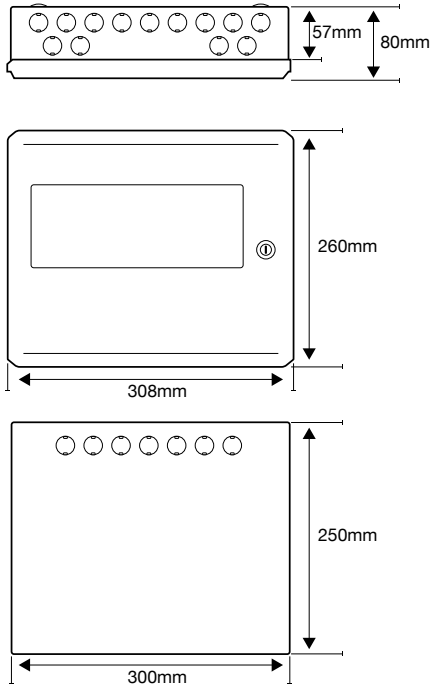
Muster Alarm

One Man Walk Test

ESENTO MARINE

CAN BE SUPPLIED WITH YOUR LOGO FITTED · FREE SERVICE · LOGO

The Esento Marine 2-4 is a Marine Approved 2 or 4 zone conventional fire alarm control panel which has been exclusively developed to address the issues of limited form and function in the conventional panels market for use at sea.



MAIN FEATURES

- 2 or 4 zones
- Muster alarm feature
- False alarm management mode
- Earth fault monitoring
- One man walk test
- Programmable inputs & outputs
- Approved to module B & D

Technical Specification

Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Mains Supply	1.25A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 3.2Ah 12v VRLA
Detection Zones	2 or 4. EOL = 4K7R
Sounder Circuits	2 x monitored, fused @500mA. EOL = 4K7R
On Board Relays	1 x Fire, 1 x Fault, 3A, 30v volt free changeover
Outputs	1 x Fire, 1 x Fault 40mA switch -ve outputs
Switch Inputs	Class change & alert (pulsing)
False Alarm Management	Type A dependancy mode, approved by LPCB
Muster Alarm	Selectable per zone

Order Codes

ESEN-2MAR	2 zone, marine approved
ESEN-4MAR	4 zone, marine approved

Accessories

FMK-ECL	Recessing bezel

Technical Specification

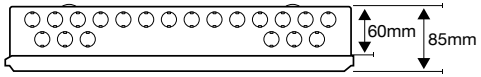
Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Mains Supply	3A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 7Ah 12v VRLA
Detection Zones	8 or 12. EOL = 4K7R
Sounder Circuits	4 x monitored, fused @500mA. EOL = 4K7R
Networking	Up to 8 control panels, fault tolerant RS485 communication, requires TPCA05 network card
On Board Relays	2 x programmable, 3A, 30v volt free changeover, additional relay provided on high spec zone card
Outputs	2 x programmable, 40mA switch -ve, 2 additional outputs provided on high spec zone card
Switch Inputs	Class change & alert (pulsing)
False Alarm Management	Type A, B & C dependancy modes, approved by LPCB
Delay Timer	On board programmable delay timer 1 -10 mins
Muster Alarm	Selectable per zone

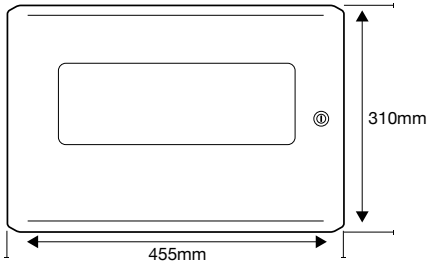
Order Codes

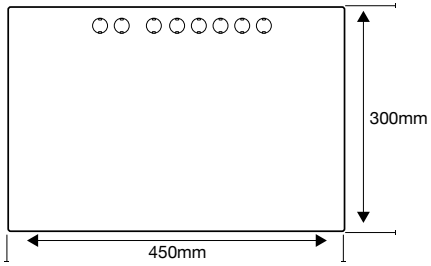
ESEN-8MAR	8 zone, marine approved
ESEN-12MAR	12 zone, marine approved

Accessories

FMK-XLEN	Recessing bezel
TPCA04-S	4 zone std expansion card
TPCA04-H	4 zone high spec expansion card
TPCA05	Network comms card
OPCARD-8	8 way relay/output card
TPCA05-VDR	Voyage data recorder card







Suitable for Repeater | Networking | Output Delays | Muster Alarm

ESENTO MARINE 8-12

The Esento Marine 8-12 is a 8-12 zone Marine Approved conventional fire alarm control panel. Exclusively developed to address the issues of limited form and function in the conventional panels market for use at sea these panels include a host of programmable features including networking, muster alarm and output delay timer.

MAIN FEATURES

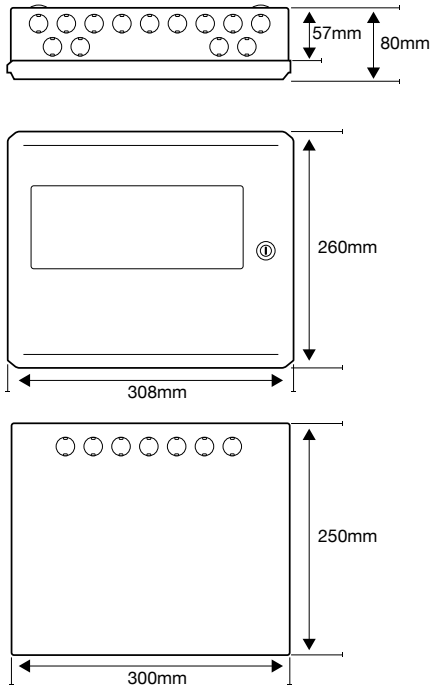
- 8 or 12 zones
- Network up to 8 control panels
- Muster alarm feature
- Programmable output delays
- All inputs and outputs fully programmable
- Earth fault monitoring
- False alarm modes A, B & C
- Voyage Data Recorder card available
- Fully functional repeater available

ESENTO MARINE REPEATER

Use with Esento Marine 8-12 zone control panels

ESENTO® MARINE

The Esento Marine repeater panel is fully functional with 'Silence', 'Resound' and 'Reset' controls, as well as Disable and Test Mode functions. It is also possible to disable the controls for each or all repeater panels to make them passive (indication only).



MAIN FEATURES

- 12, zonal, fire & fault indications
- Up to 8 repeaters on a network
- Fault tolerant or legacy radial communication wiring
- 6 x programmable switch -ve outputs included on network card
- Class change inputs
- Fully functional or passive
- Test mode & disablement function controls

Technical Specification

Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Mains Supply	1.25A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 3.2Ah 12v VRLA
Outputs	6 x programmable sw -ve outputs (included on network card)
Switch Inputs	Class change & alert (pulsing)
Communication Wiring	Fault tolerant wiring requires 4 core (min 1.5mm) fireproof cable Legacy radial wiring requires 2 core (min 1.5mm) fireproof cable
Compatiblity	Suitable for all Excel & Evoque control panels (up to 12 zones)

Order Codes

ESEN-R-12MAR	12 zone repeater panel

Accessories

FMK-ECL	Recessing bezel

ALARMSENSE CONTROL PANELS

ALARMSENSE

One Man Walk Test

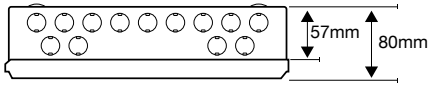
AlarmSense®

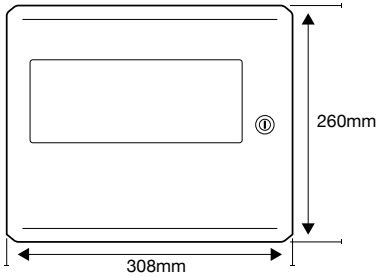
CAN BE SUPPLIED WITH YOUR LOGO FITTED · FREE SERVICE · LOGO

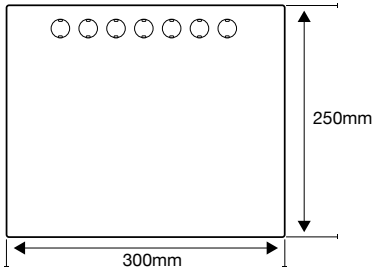
Haes AlarmSense control panels provide 2 or 4 AlarmSense zones and have been developed specifically for use with the Apollo Fire Detectors range of AlarmSense devices which embrace two-wire technology. Ideal for HMO's.

MAIN FEATURES

- 2 or 4 AlarmSense zones
- 2 additional monitored conventional sounder circuits
- One man walk test
- Class change inputs
- Non priority alarm programming
- Coincidence alarm programming
- Suitable for full range of AlarmSense devices







Technical Specification

Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Mains Supply	1.25A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 3.2Ah 12v VRLA
Detection Zones	2 or 4, AlarmSense protocol. EOL = 3K3R
Sounder Circuits	2 x monitored, fused @500mA. EOL = 3K3R
On Board Relays	1 x Fire, 1 x Fault, 3A, 30v volt free changeover
Outputs	1 x Fire, 1 x Fault 40mA switch -ve outputs
Switch Inputs	Class change & alert (pulsing)
Non Priority Alarm	Selectable per zone
Coincidence Alarm	Selectable per zone

Order Codes

ALS-2	2 zone, AlarmSense
ALS-4	4 zone, AlarmSense

Accessories

FMK-ECL	Recessing bezel

Technical Specification

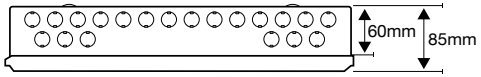
Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Mains Supply	3A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 7Ah 12v VRLA
Detection Zones	4, 8 or 12 AlarmSense protocol. EOL = 3K3R
Sounder Circuits	2 x monitored, fused @500mA. EOL = 3K3R
On Board Relays	2 x programmable, 3A, 30v volt free changeover
Outputs	2 x programmable, 40mA switch -ve
Switch Inputs	Class change & alert (pulsing)
Event Log	40 event history
Non Priority Alarm	Selectable per zone
Coincidence Alarm	Selectable per zone

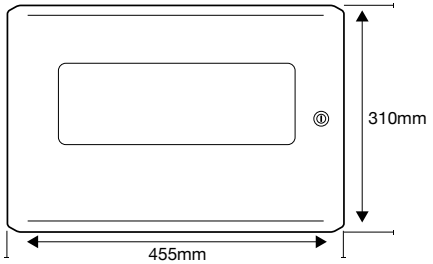
Order Codes

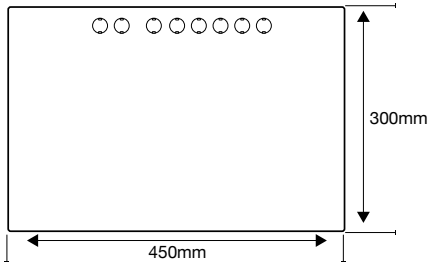
ASP-4	4 zone, AlarmSense
ASP-8	8 zone, AlarmSense
ASP-12	12 zone, AlarmSense

Accessories

FMK-XLEN	Recessing bezel
TPCA07	4 zone expansion card







One Man Walk Test

Suitable for Repeater

CAN BE SUPPLIED WITH YOUR LOGO FITTED · FREE SERVICE
LOGO

AlarmSense PLUS

ALARMSENSE PLUS

Haes AlarmSense PLUS control panels provide 4, 8 or 12 AlarmSense zones and have been developed specifically for use with the Apollo Fire Detectors range of AlarmSense devices which embrace two-wire technology. Ideal for HMO's

MAIN FEATURES

- 4, 8 or 12 AlarmSense zones
- 2 additional monitored conventional sounder circuits
- One man walk test
- Class change inputs
- Non priority alarm programming
- Coincidence alarm programming
- Suitable for full range of AlarmSense devices
- Fully functional repeater available

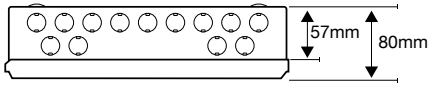
ALARMSENSE PLUS REPEATER

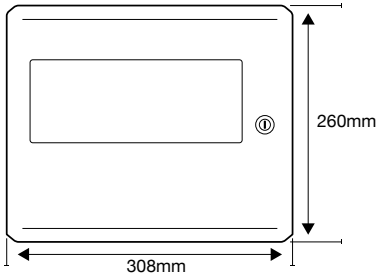
Use with AlarmSense PLUS control panels

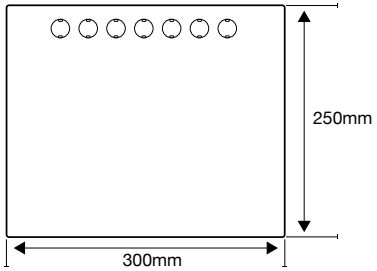
The AlarmSense PLUS repeater panel is fully functional with 'Silence', 'Resound' and 'Reset' controls, as well as Disable and Test Mode functions. It is also possible to disable the controls for each or all repeater panels to make them passive (indication only).

MAIN FEATURES

- 12, zonal, fire & fault indications
- Up to 8 repeaters on a network
- Fault tolerant or legacy radial communication wiring
- 6 x programmable switch -ve outputs included on network card
- Class change inputs
- Fully functional or passive
- Test mode & disablement function controls







Technical Specification	
Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Mains Supply	1.25A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 3.2Ah 12v VRLA
Outputs	6 x programmable sw -ve outputs (included on network card)
Switch Inputs	Class change & alert (pulsing)
Communication Wiring	Fault tolerant wiring requires 4 core (min 1.5mm) fireproof cable Legacy radial wiring requires 2 core (min 1.5mm) fireproof cable
Compatiblity	Suitable for all AlarmSense PLUS control panels

Order Codes	
ASP-R-12	AlarmSense PLUS repeater

Accessories	
FMK-ECL	Recessing bezel

AOV CONTROL PANELS

AOV SINGLE ZONE 3 AMP

TwinWire

One Man Walk Test

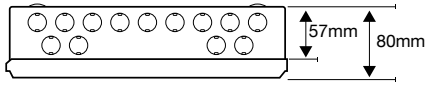
False Alarm Mode

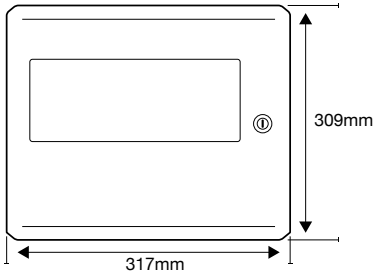
CAN BE SUPPLIED WITH YOUR LOGO FITTED • FREE SERVICE • LOGO

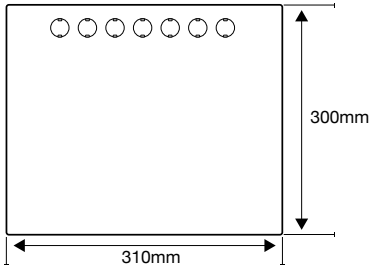
SZAOV®

A purpose designed single detection zone automatic opening vent control panel with integral 3A PSU to use with vents, windows and roof lights.

The SZAOV range has been developed to provide a comprehensive and flexible solution to smoke vent control scenarios.







MAIN FEATURES

- 3 amp integral PSU
- Single detection zone
- Switch inputs to control wide combination of vents
- Configurable Fireman switch inputs
- Thermostat input - Ventilation mode
- Optional support for Rain sensor, PIR and BMS control

Technical Specification

Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Mains Supply	3A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 7Ah 12v VRLA
Detection Zones	Single monitored detection zone. EOL = 6K8
Twin Wire	Selectable in panel (enables AV devices to be connected to det cct)
On Board Relays	1 x Alarm, 1 x Fault, volt free changeover, Max 3A
Fireman's Switch Input	Fireman's control switch input for Open/Close/Auto
Vent Control Input	Vent control switch inputs, Open/Close (rocker switch)
Actuator Output	Reversal actuator control outputs (2.5A total max) can be configured as a maintained output for a magnetic door
Aux Output	28v, 2.5A. The Aux output should not be used to control sounders.
BMS Connection	0/10v positional control input 10% steps, 0/10v positional data output. (Available on separate PCB)
False Alarm Management	Type A

Order Codes

SZAOV-1001	1 zone non extendable, 3A PSU

Accessories

MZAOV-3002	PIR, rain sensor & BMS add on card

Technical Specification

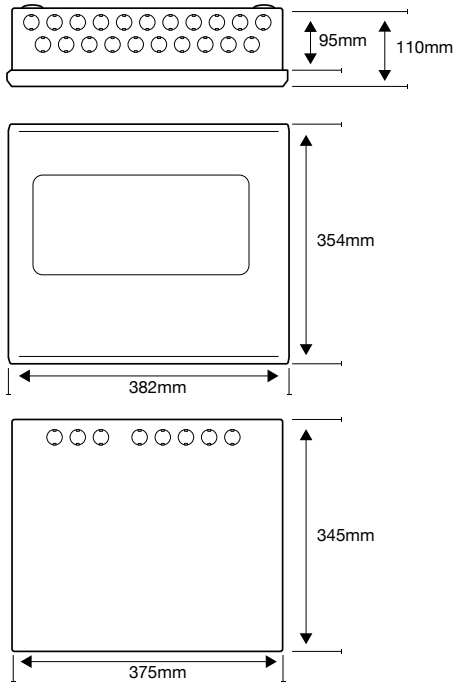
Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Mains Supply	3A or 5A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 12Ah 12v VRLA
Detection Zones	1 - 4 monitored detection zones. EOL = 6K8
Twin Wire	Selectable in panel (enables AV devices to be connected to det cct)
On Board Relays	1 x Alarm, 1 x Fault, volt free changeover, Max 3A
Fireman's Switch Input	Fireman's control switch input for Open/Close/Auto
Vent Control Input	Vent control switch inputs, Open/ Close (rocker switch)
Actuator Output	Reversal actuator control outputs (4.5A total max) can be configured as a maintained output for a magnetic door
Aux Output	Voltage free normally open relay contact, closing when the associated zone is activated, Max 3A
BMS Connection	0/10v positional control input 10% steps, 0/10v positional data output. (Available on separate PCB)
False Alarm Management	Type A, B and C dependency mode, approved by LPCB

Order Codes

MZAOV-1001A	1 zone non extendable, 3A PSU
MZA0V-1001	2 zone extendable up to 4, 3A PSU
MZA0V-1002	2 zone extendable up to 4, 5A PSU

Accessories

MZAOV-3001	2 zone extension card
MZAOV-3002	PIR, rain sensor & BMS add on card



False Alarm Mode

One Man Walk Test

Twinwire

AOV MULTI ZONE 1 - 4 ZONE

MZAOV®

A purpose designed one to four detection zone automatic opening vent control panel with integral 3A or 5A PSU to use with vents, windows and roof lights.

The MZAOV range has been developed to provide a comprehensive and flexible solution to smoke vent control scenarios.

MAIN FEATURES

- 3 or 5 amp integral PSU
- Up to 4 detection zones and 4 actuators
- Large graphical display
- Switch inputs to control wide combination of vents
- Configurable Fireman switch inputs
- Thermostat input - Ventilation mode
- Optional support for Rain sensor, PIR and BMS control

AOV MULTI ZONE 2 - 8 ZONE

Twinwire | One Man Walk Test | False Alarm Mode

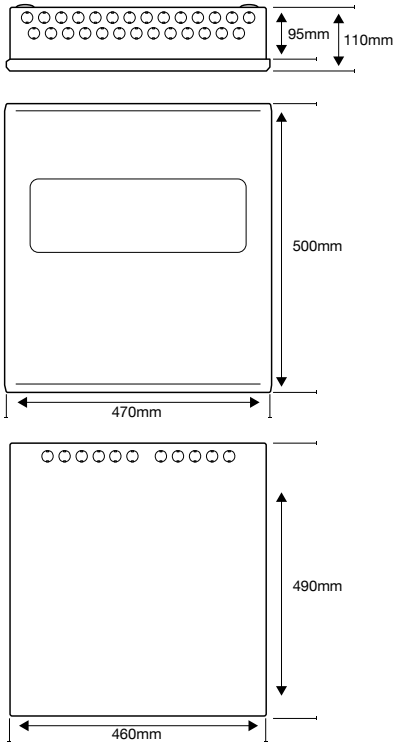
MZAOV®

A purpose designed two to eight detection zone automatic opening vent control panel with integral 10A PSU to use with vents, windows and roof lights.

The MZAOV range has been developed to provide a comprehensive and flexible solution to smoke vent control scenarios.

MAIN FEATURES

- 10 amp integral PSU
- Up to 8 detection zones and 8 actuators
- Large graphical display
- Switch inputs to control wide combination of vents
- Configurable Fireman switch inputs
- Thermostat input - Ventilation mode
- Optional support for Rain sensor, PIR and BMS control



Technical Specification	
Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Mains Supply	10A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 18Ah 12v VRLA
Detection Zones	1 - 8 monitored detection zones. EOL = 6K8
Twin Wire	Selectable in panel (enables AV devices to be connected to det cct)
On Board Relays	1 x Alarm, 1 x Fault, volt free changeover, Max 3A
Fireman's Switch Input	Fireman's control switch input for Open/Close/Auto
Vent Control Input	Vent control switch inputs, Open/Close (rocker switch)
Actuator Output	Reversal actuator control outputs (9A total max) can be configured as a maintained output for a magnetic door
Aux Output	Voltage free normally open relay contact, closing when the associated zone is activated, Max 3A
BMS Connection	0/10v positional control input 10% steps, 0/10v positional data output. (Available on separate PCB)
False Alarm Management	Type A, B and C dependency mode, approved by LPCB

Order Codes	
MZAOV-1003	2 zone extendable to 8, 10A PSU

Accessories	
MZAOV-3001	2 zone extension card
MZAOV-3002	PIR, rain sensor & BMS add on card

EXTINGUISHANT RELEASE CONTROL PANELS

bsi.
Fire Detection
and Alarm Systems
KITEMARK™

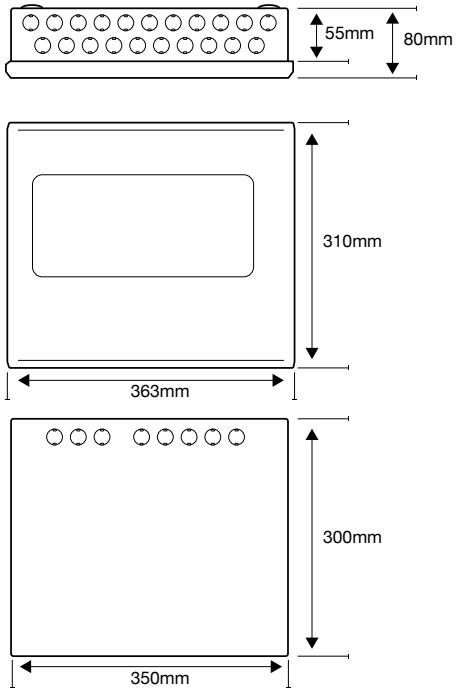
ESPRIT-G SINGLE FLOOD AREA

ESPRIT®

The single flood area control panel has 3 detection circuits and ample sounder circuits for stage 1 and stage 2 alarms. A large graphical display and simple-to-navigate menu system allow easy and flexible configuration for all extinguishant release scenarios.

MAIN FEATURES

- Single flooding area
- 3 detection zones
- Approved to EN12094-1, EN54-2 & EN54-4
- Programmable countdown timers
- 255 time and date stamped event logs
- Large graphical display
- Fully configurable zone voting for gas release



Technical Specification	
Enclosure	1.2mm Mild Steel IP30. Colour ref MW334E Interpon Powder coat
Mains Supply	Universal switch mode PSU, 1.2A (ESG-1001), 3.4A (ESG-1002)
Battery Capacity	Up to 7Ah 24V VRLA
Detection Zones	3 x conventional zones. EOL = 6K8
Extinguishing Zones	1 x flooding/extinguishing zones support for metron & solenoid type actuators
Sounder Circuits	4 x 400mA 21-28vdc. EOL = 6K8
On Board Relays	6 x 1A 30VDC relay outputs, (fire, fault, stage 1 & 2, extract, local) x 1
Outputs	Additional outputs via add on output card, ESG-2005
Switch Inputs	CC, PULS
Monitored Inputs	Flow, Pressure, Release, Hold, Abort x 1
Countdown Timer	Extinguishant Delay: 0-60 secs Extinguishant Duration: 1-300 sec Flooding Time: 60-1800 secs Extract Time: 1-90 mins Reset Inhibit Time: 0-30 mins
Event Log	255 events, time & date stamped

Order Codes	
ESG-1001	Single flood area 1.2A PSU
ESG-1002	Single flood area 3.4A PSU

Accessories	
FMK-ES-01	Recessing bezel
ESG-2005	Output card
ESG-2002	Mini remote LED status indicator
ESG-2006	Remote Hold Off button
ESG-2007	Remote Abort button

Technical Specification

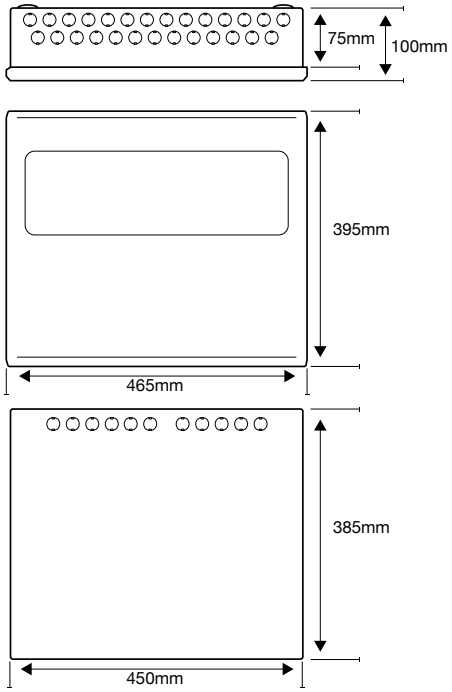
Enclosure	1.2mm Mild Steel IP30. Colour ref MW334E Interpon Powder coat
Mains Supply	Universal switch mode PSU, 3.4A
Battery Capacity	Up to 18Ah 24V VRLA
Detection Zones	6 x conventional zones. EOL = 6K8
Extinguishing Zones	2 x flooding/extinguishing zones support for metron & solenoid type actuators
Sounder Circuits	6 x 400mA 21-28vdc. EOL = 6K8
On Board Relays	10 x 1A 30VDC relay outputs, (fire, fault, stage 1 & 2, extract, local) x 2
Outputs	Additional outputs via add on output card, ESG-2005 (1 card per flood zone)
Switch Inputs	CC, PULS
Monitored Inputs	Flow, Pressure, Release, Hold, Abort x 2
Countdown Timer	Extinguishant Delay: 0-60 secs Extinguishant Duration: 1-300 sec Flooding Time: 60-1800 secs Extract Time: 1-90 mins Reset Inhibit Time: 0-30 mins
Event Log	255 events, time & date stamped

Order Codes

ESG-1003	Dual flood area, 3.4A PSU

Accessories

FMK-ES-02	Recessing bezel
ESG-2005	Output card
ESG-2002	Mini remote LED status indicator
ESG-2006	Remote Hold Off button
ESG-2007	Remote Abort button



ESPRIT®

ESPRIT-G DUAL FLOOD AREA

The dual flood area control panel has 6 detection circuits and ample sounder circuits for stage 1 and stage 2 alarms in both flood areas. A large graphical display and simple-to-navigate menu system allow easy and flexible configuration for all extinguishant release scenarios.

MAIN FEATURES

- Dual flooding area
- 6 detection zones
- Approved to EN12094-1, EN54-2 & EN54-4
- Programmable countdown timers
- 255 time and date stamped event logs
- Large graphical display
- Fully configurable zone voting for gas release

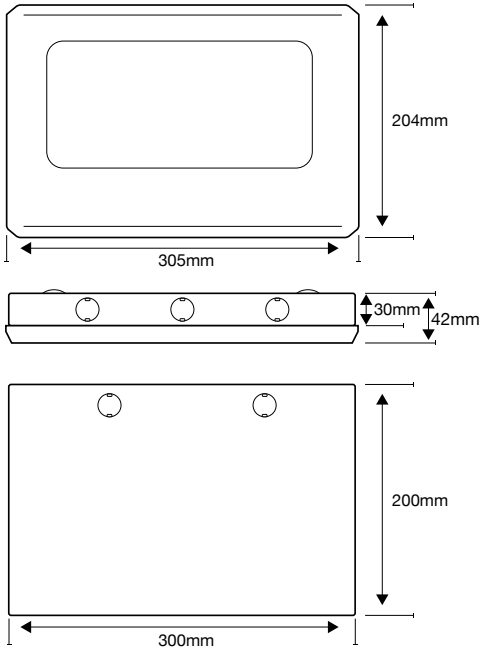
ESPRIT-G REMOTE DISPLAY STATUS UNIT

ESPRIT®

The Esprit-G remote display unit has the same large LCD graphic display as the control panel with a simple-to-navigate menu system. Additional LED indicators, a manual release button and an auto/manual key switch are also provided.

MAIN FEATURES

- Large graphic display
- Simple menu navigation
- Manual release button
- Auto/manual key switch
- Robust metal enclosure



Technical Specification	
Enclosure	1.2mm Mild Steel IP30. Colour ref MW334E Interpon Powder coat
Display	4 x 40 character backlit LCD display
Input Voltage	Requires 24vdc supply
Connections	2 wire RS485 comms plus 24v +/- (4 wires)

Order Codes	
ESG-2001	Graphic display remote status unit

Accessories	
FMK-ES-03	Recessing bezel

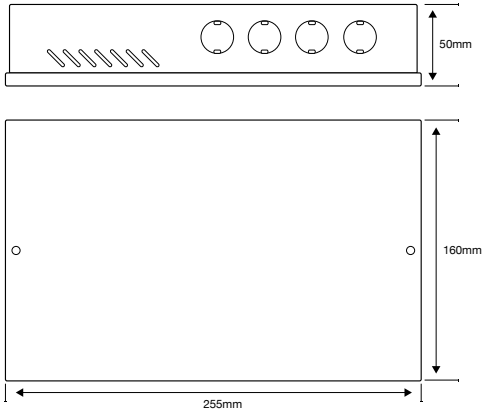
POWER SUPPLIES

TRX POWER SUPPLY

The Haes 'TRX' transformer rectifier power supplies are suitable for applications requiring a simple regulated 24vdc supply, where the charging of standby batteries is not required.

MAIN FEATURES

- High efficiency switched mode power supply
- 1A or 2.5A versions
- Regulated 24v dc supply output
- Integral load switching relay
- Wide mains input voltage range
- Overload protected



Technical Specification	
Enclosure	1.2mm Mild Steel IP34. Colour ref: MW334E Interpon powder coat
Input Voltage	88-264vac, 47-63Hz
Input Current	TRX1A-24 = 0.55A / 230vac TRX2.5A-24 = 1.2A / 230vac
Output Voltage	24vdc
Maximum Curent	TRX1A-24 = 1.5 amp TRX2.5A-24 = 3.2 amp
Maximum Continuous Load	TRX1A-24 = 1 amp TRX2.5A-24 = 2.5
Relay	Single pole volt free changeover, 24vdc coil

Order Codes	
TRX1A-24	1 amp TRX power supply
TRX2.5A-24	2.5 amp TRX power supply

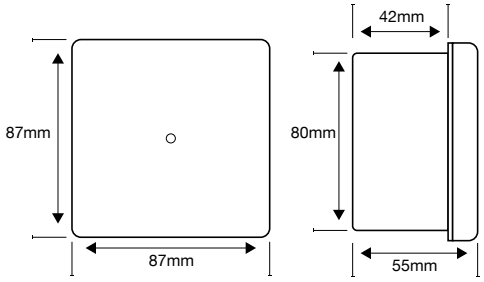
RELAYS & SWITCHES

AUXILIARY RELAY

8 amp, double pole, 24v dc changeover auxiliary relay switches, suitable for a multitude of site switching requirements. The relays are mounted in a flame retardant ABS enclosure and can be surface or flush fitted.

MAIN FEATURES

- 8 amp double pole relay
- Can be surface or recess fitted
- Contacts rated at up to 250v ac
- Outputs individually fused
- 'Activated' LED



Technical Specification	
Operating Voltage	24v dc (nominal)
Contact Rating	250v ac 8A double pole changeover
Fuse	5 amp, 20mm quick blow (F)
Enclosure	ROHS compliant FR ABS - 87 W x 87 H x 55 D (mm)

Order Codes	
BRF248A-R	Auxiliary relay, red

AUXILIARY ISOLATE RELAY

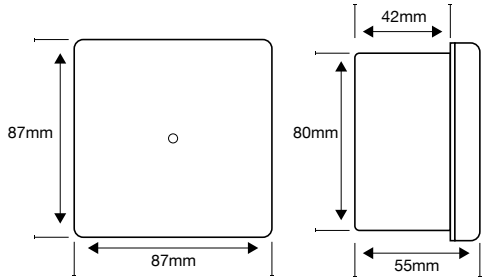
Technical Specification

Operating Voltage	24v dc (nominal)
Contact Rating	250v ac 8A double pole changeover
Current Consumption	Normal: 0mA Isolated LED only: 5.3mA LED + buzzer: 7.8mA LED + relay: 12.1mA LED + relay + buzzer: 12.8mA Triggered: 18.3mA
Enclosure	ROHS compliant FR ABS - 87 W x 87 H x 55 D (mm)

Order Codes

BRISOL-R	Aux isolate relay, red

8A 24vdc double pole changeover auxiliary relay with an isolate key switch which can be used to isolate the relay or energise the relay. Mounted in a flame retardant ABS enclosure which can be surface or flush fitted.



MAIN FEATURES

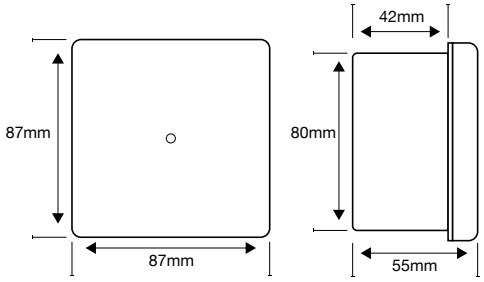
- 8 amp double pole relays
- Can be surface or recess fitted
- Contacts rated at up to 250v ac
- Key switch can be used to Isolate or Activate the relay
- 'Isolated' LED

AUXILIARY TIMER/ PULSING RELAY

A multi-purpose 24v timer or pulsing relay with 8A double pole contacts, configurable to provide a variety of operational functions. Available as a boxed unit with isolate key switch or as a PCB only with self adhesive, Nylon mounting pillars.

MAIN FEATURES

- 8 amp double pole relay
- Delay timer or pulsing relay
- Can be surface or recess fitted
- Available as PCB only
- Isolate key switch on boxed version
- 2 colour relay status LED
- Set relay timer 0-255 secs/mins or hrs



Technical Specification	
Operating Voltage	24v dc (nominal)
Contact Rating	250v ac 8A double pole changeover
Current Consumption	Normal: 7.5mA Isolated LED only: 24mA LED + buzzer: 38mA LED + relay: 43mA LED + relay + buzzer: 57mA Triggered: 24mA
Enclosure	ROHS compliant FR ABS - 87 W x 87 H x 55 D (mm)

Order Codes	
BRTIMER	Timer/pulsing relay - boxed
RECARD-TMR	Timer/pulsing relay - PCB only

LOCKDOWN ALERT ALARM PULSING RELAY

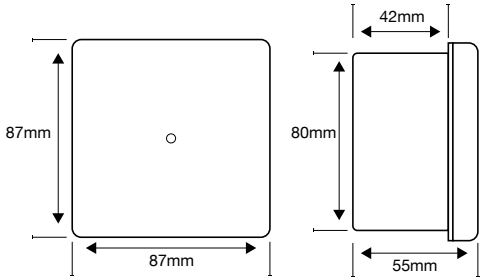
Technical Specification

Operting Voltage	24v dc (nominal)
Contacts	250v ac, 8A, VL 10A, double pole changeover
Current Consumption @ 28v	Normal: 7.5mA Activated: LED only: 24mA LED + buzzer: 37mA LED + relay: 43mA LED + relay + buzzer: 56mA
Enclosure	ROHS compliant FR ABS - 87 W x 87 H x 55 D (mm)

Order Codes

BRLDA	Lockdown alarm switch

The Haes lockdown alarm switch has been developed to assist with the lockdown policy of any school, hospital or other public building. Works with existing fire alarm system with programmable relay ON & OFF times to provide a unique ring pattern.



MAIN FEATURES

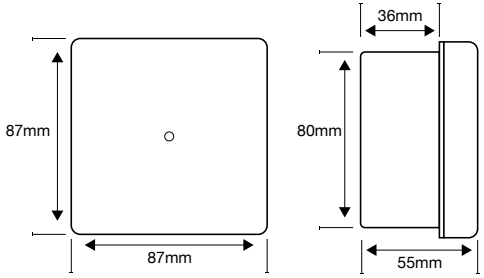
- Provides pulsing or continuous alert of the impending lockdown of a building
- 8 amp double pole relay
- Use with existing fire control panel
- Key switch activation
- Alarm status LED indicator
- Programmable ON/OFF times to provide a unique ring pattern

FIRE ALARM ISOLATE SWITCH

The Haes Fire Alarm Mains Isolate Switch is a purpose designed switch for the isolation of the mains supply to a fire alarm control panel in accordance with the requirements of BS5839 Pt 1 and BS EN60669.

MAIN FEATURES

- Complies with the recommendations of BS 5839 Pt 1 & BS EN606
- Suitable for surface or recess fitting
- Fits standard 15mm single gang back box
- Power indicator LED
- Uses standard fish key
- 10A rated switch
- Double pole isolation for increased safety



Technical Specification	
Switch Contacts	Double pole, 250v ac 10 Amps max continuous load
Fuse	5 x 20mm, quick acting F, H, 250 VAC ceramic tube
Enclosure	ROHS compliant FR ABS - 87 W x 87 H x 55 D (mm)

Order Codes	
FAIS-R-B	Fire alarm mains isolate switch

Haes Technologies Limited, Unit 3 Horton Industrial Park, West Drayton, UB7 8JD - www.haes-tech.com