

Model: SMX

The SMX model is designed keeping in mind the needs of today's performance conscious establishments. It is a range of compact and feature-rich, modern-age panels that constitute together with a suite of intelligent devices, highly reliable fire alarm systems.

The SMX panels meet the requirements of the latest codes and standards and allow for quick and easy installation. Just fix the panel to the wall, connect the field wiring devices, and power up the panel for a working fire alarm system. The large touch display allows the panel to be programmed easily by providing a clear menu structure, making the the entire setup process extremely intuitive. Complex configuration is made easy by using the mobile appl and the Bluetooth dongle connectivity.



USER INTERFACE

Display: 5-inch multi-color touch display

Control Keys: Silence Buzzer, Silence/Resound Alarm, Reset

Indicators: Power, Alarm Silenced, Trouble, System Trouble, Disabled Test Supervisory, Delay

DEVICES AND LOOP CAPACITY

Supports Morley IAS UL detectors & modules

Loop Capacity: 500 mA per loop

SKU NO.	DESCRIPTION	NUMBER OF LOOP	COLOR	DEVICES	DEVICES / LOOP	ADDRESS RANGE	DEVICES / PANEL
915-100-202	SMX 1 loop panel supporting up to 198 devices in a grey color metal enclosure	1	Grey	Sensors	159	1 - 159	159
				Modules	39	161 - 199	39
915-100-102-R	SMX 1 loop panel supporting up to 198 devices in a red color metal enclosure	1	Red	Sensors	159	1 - 159	159
				Modules	39	161 - 199	39
915-100-202	SMX 2 loop panel supporting up to 396 devices in a grey color metal enclosure	2	Grey	Sensors	159	1 - 159	318
				Modules	39	161 - 199	78
915-100-202-R	SMX 2 loop panel supporting up to 396 devices in a red color metal enclosure	2	Red	Sensors	159	1 - 159	378
				Modules	39	161 - 199	78
915-100-402	SMX 4 loop panel supporting up to 792 devices in a grey color metal enclosure	4	Grey	Sensors	159	1 - 159	636
				Modules	39	161 - 199	156
915-100-402-R	SMX 4 loop panel supporting up to 792 devices in a red color metal enclosure	4	Red	Sensors	159	1 - 159	636
				Modules	39	161 - 199	156

KEY FEATURES

- Multiple loop options – 1, 2, and 4 loops
- Up to 198 devices per full loop
- 160 fire zones
- 10,000 events log
- Multiple output and input interfaces for a fully integrated fire alarm solution
- Pluggable electrical connectors and ergonomic design for easy installation
- Large touch display for enhanced readability, context-awareness and easy navigation resulting in exemplified user experience
- Mobile and PC apps for guided configuration
- Ability to configure panels off-site and sync via USB pen drive or Honeywell Bluetooth
- Battery-backed, real-time clock (RTC)
- 32-bit dual-core microprocessor
- UL 864 10th Edition Certified

SMX Technical Specifications

INTERFACES

- 3 Output Relays with single pole changeover 24V DC 1 A: Fire Trouble & Programmable (Supervisory by default)
- 1 RS485 port for up to 8 repeaters or mimics or a combination of the two
- 1 RS232 ports: One for serial printer
- 2 USB ports: One for pen drive and Honeywell Bluetooth dongle and one reserved for future use
- 2 NAC circuit with max 150 mA each
- 2 on-board monitored inputs

MECHANICAL	SPECIFICATIONS
DIMENSIONS [MM] (H X W X D)	531x451x178
WEIGHT (EXCLUDING BATTERIES)	9 kg (317 oz)
COLOUR	Grey & red
MOUNTING HOLES	5
KNOCKOUTS (20MM)	Top: 16; Bottom: 4; Side: 4; Back: 2
MOUNTING TYPE	Surface and Flush
OPERATING TEMPERATURE	0°C to +49°C
RELATIVE HUMIDITY	5% - 95% non-condensing
MATERIAL	Powder Coated Mild Steel.
IP RATING	30

ELECTRICAL	SPECIFICATIONS
OPERATING VOLTAGE	230V AC, 50/60 Hz
PSU RATING	24V DC 6.5 A
STAND-BY BATTERIES	2 loop (915-100-102) - 2 x 12Ah 4 loop (615-000-202) - 2 x 18 Ah or 2 x 24 Ah (based on battery back-up calculations)
STAND-BY BATTERY DURATION	24 hours back-up under normal condition
AUXILLIARY OUTPUT	2 units of 24 V Dc 100 mA each
FIELD STRENGTH	52V/m for 5W test condition

Agency Listings and Approvals

Listing and approval below apply to the modules specified in this. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S36244

For more information

www.morley-ias.co.uk

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Model: STX

The STX model is designed keeping in mind the needs of today's performance conscious establishments. It is a range of compact and feature-rich, modern-age panels that constitute together with a suite of intelligent devices, highly reliable fire alarm systems.

The STX panels meet the requirements of the latest codes and standards and allow for quick and easy installation. Just fix the panel to the wall, connect the field wiring devices, and power up the panel for a working fire alarm system. The large touch display allows the panel to be programmed easily by providing a clear menu structure, making the the entire setup process extremely intuitive. Complex configuration is made easy by using the mobile app and the Bluetooth dongle connectivity.



USER INTERFACE

Display: 5-inch multi-color touch display

Control Keys: Silence Buzzer, Silence/Resound Alarm, Reset

Indicators: Power, Alarm Silenced, Trouble, System Trouble, Disabled, Test, Supervisory, Delay

DEVICES AND LOOP CAPACITY

Supports Morley IAS UL detectors & modules

Loop Capacity: 500 mA per loop

SKU NO.	DESCRIPTION	NUMBER OF LOOP	COLOR	DEVICES	DEVICES / LOOP	ADDRESS RANGE	DEVICES / PANEL
615-000-002	STX 1 loop panel supporting up to 98 devices in a grey color plastic enclosure	1	Grey	Sensors	59	1 - 59	59
				Modules	39	161 - 199	39
615-000-002-R	STX 1 loop panel supporting up to 98 devices in a red color plastic enclosure	1	Red	Sensors	59	1 - 59	59
				Modules	39	161 - 199	39
615-000-102	STX 1 loop panel supporting up to 198 devices in a grey color plastic enclosure	1	Grey	Sensors	159	1 - 159	159
				Modules	39	161 - 199	39
615-000-102-R	STX 1 loop panel supporting up to 198 devices in a red color plastic enclosure	1	Red	Sensors	159	1 - 159	159
				Modules	39	161 - 199	39
615-000-202	STX 2 loop panel supporting up to 396 devices in a grey color plastic enclosure	2	Grey	Sensors	159	1 - 159	318
				Modules	39	161 - 199	78
615-000-202-R	STX 2 loop panel supporting up to 396 devices in a red color plastic enclosure	2	Red	Sensors	159	1 - 159	318
				Modules	39	161 - 199	78

KEY FEATURES

- Multiple loop options –half, 1 and 2 loops
- Up to 198 devices per full loop
- 160 fire zones
- 5,000 events log
- Multiple output and input interfaces for a fully integrated fire alarm solution
- Pluggable electrical connectors and ergonomic design for easy installation
- Large touch display for enhanced readability, context-awareness and easy navigation resulting in exemplified user experience
- Mobile and PC apps for guided configuration
- Ability to configure panels off-site and sync via USB pen drive or Honeywell Bluetooth
- Battery-backed, real-time clock (RTC)
- 32-bit dual-core microprocessor
- UL 864 10th Edition Certified

STX Technical Specifications

INTERFACES

- 3 Output Relays with single pole changeover 24V DC 1 A: Fire Trouble & Programmable (Supervisory by default)
- 1 RS485 port for up to 4 repeaters or mimics or a combination of the two
- 1 RS232 ports: One for serial printer
- 2 USB ports: One for pen drive and Honeywell Bluetooth dongle and one reserved for future use
- 1 NAC circuit with max 150 mA
- 2 on-board monitored inputs

MECHANICAL	SPECIFICATIONS
DIMENSIONS [MM] (H X W X D)	465x408x153
WEIGHT (EXCLUDING BATTERIES)	7 Kg (246 oz)
COLOUR	Grey & red
MOUNTING HOLES	3
KNOCKOUTS (20MM)	Top: 16; Back: 2
MOUNTING TYPE	Surface Only
OPERATING TEMPERATURE	0°C to +49°C
RELATIVE HUMIDITY	5% - 95% non-condensing
MATERIAL	PC+ABS plastic (BAYBLEND FR3010- UL 94 5VA)..
IP RATING	30

ELECTRICAL	SPECIFICATIONS
OPERATING VOLTAGE	230V AC, 50/60 Hz AC
PSU RATING	1 loop (615-000-002 and 615-000-102) - 24V DC 2 A 2 loop (615-000-202) - 24V DC 6.25 A
STAND-BY BATTERIES	2 x 12Ah (recommended)
STAND-BY BATTERY DURATION	24 hours back-up under normal condition
AUXILLIARY OUTPUT	24 V Dc 100 mA
FIELD STRENGTH	52V/m for 5W test condition

Agency Listings and Approvals

Listing and approval below apply to the modules specified in this. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S36244

For more information

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315-508

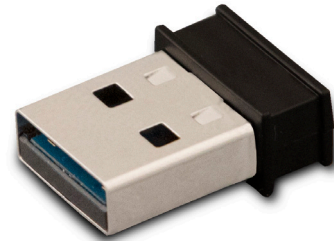
Honeywell Bluetooth USB Dongle is an elegant Bluetooth Low Energy (BLE) product that is used for seamlessly interfacing with the Morley STX and SMX fire panel models.

The Honeywell Bluetooth Dongle (HONBLEKIT2) is a plug and play module that enables wireless communication between the panel and the Honeywell SmartConfig™ mobile application for simple, smart and secure commissioning and maintenance operations.

The HONBLEKIT2 is compatible with SmartConfig version 2.0.0.0 onwards.

Honeywell Bluetooth Dongle Specification:

CONTAINS BLUETOOTH 4.0 QUALIFIED SINGLE-MODE MODULE	
VBUS	-0.3 to 6.5 V
Operating Temperature Range	-40 to +85°C
TX current consumption (radio only, 0dBm)	12.1 mA
RX current consumption (Radio only)	33 mA
TX output power	44 mA
Approvals/ Certifications	WPC, FCC



Honeywell Bluetooth Dongle (HONBLEKIT2)

FCC Statement:

Contains FCC ID: QOQBLED112

This HONBLEKIT2 complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- This device may not cause harmful interference
- This device must accept any interference received

CAUTION: Changes or modifications not expressly approved by the manufacturer could void the authority of the user to operate the equipment.

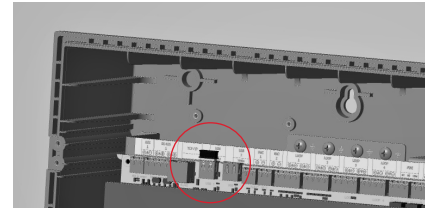
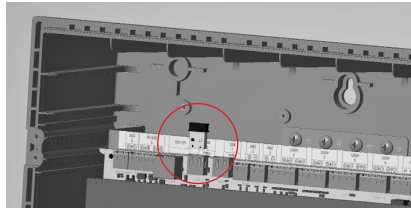
FEATURES:

Following are the features of Honeywell wireless commissioning:

- Provides seamless wireless low power Bluetooth Connectivity to Morley STX and SMX fire panel models
- Eases the panel commissioning and maintenance operations through Honeywell SmartConfig™ Mobile app
- Enables productivity through a simple interface
- Eliminates the need to carry laptops, cables and so on to the site for configuration

How to connect the Honeywell Bluetooth USB Dongle to the fire panel?

1. Open the fire panel's front door.
2. Look for the "USB 1" on the top behind the display board.
3. Plug the USB dongle into the "USB 1" port.



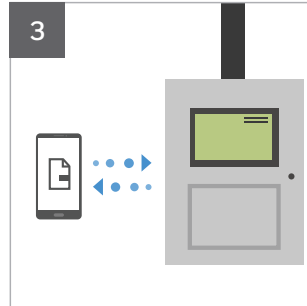
How to connect via Bluetooth to program the fire panel?



1 Launch the Honeywell Morley-IAS SmartConfig™ mobile application.



2 Establish a Bluetooth connectivity between mobile application and Fire Alarm Control panel.



3 Configure the Fire Alarm Control Panel using™ Quickwizard.



4 Voila! The Fire Alarm Control Panel is configured.

1. Ensure that the Honeywell Bluetooth USB Dongle is connected to the fire panel.
2. On the panel, tap **Commissioning** from the Main Menu.
3. Tap next to **Configuration via Bluetooth**.
4. On the mobile, switch-on the Bluetooth and discover, select the **HONBLEKIT2** connection.
5. Enter the pass-code that appears on the panel screen into your mobile device.
6. The Bluetooth icon gets activated on the panel screen as soon as the panel is paired with the mobile device.
7. Now you can send the configuration from mobile to the panel or read from the panel, as required.

For more details on programming the fire panel via Bluetooth, refer to one or more of the following resources as required:

1. FAQ from within the SmartConfig™ mobile app.
2. SmartConfig™ PC Application User's Guide (NS-MS-0020)
3. STX SMX Programming Guide (NS-MN-0017)

Product Line Information

315-508: BLE Dongle for Wireless Commissioning

For more information

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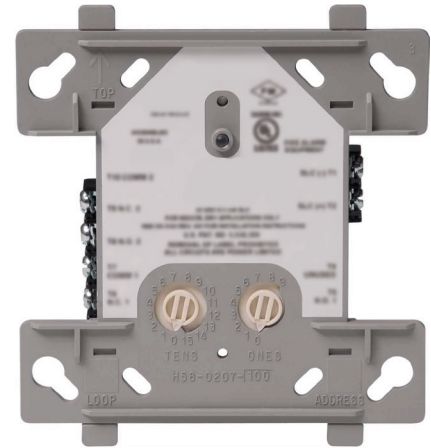
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HM-D240CMO-UL



HM-D240CMO-UL

General

The HM-D240CMO-UL Addressable Relay Module provides the system with a dry contact output for activating a variety of auxiliary devices, such as fans, door holders, dampers, control equipment, etc. Addressability allows the dry contact to be activated through panel programming, on a select basis.

Applications

The HM-D240CMO-UL may be programmed to operate dry contacts for door holders, Air Handling Unit shutdown, etc., and to reset four-wire smoke detector power.

Construction

- The face plate is made of off-white, heat resistant plastic
- Controls include two rotary switches for direct-dial entry of address-setting
- The HM-D240CMO-UL is configured for a single Class B Notification Appliance Circuit
- The HM-D240CMO-UL provides two Form-C dry contacts that switch together

Operation

Each HM-D240CMO-UL uses one of the addresses on a SLC loop. It responds to regular polls from the control panel and reports its type and status. The LED blinks with each poll received. On command, it activates its internal relay.

NOTE: Open/short supervision is suspended with the HM-D240CMO-UL.

Rotary switches set a unique address for each module. The address may be set before or after mounting. The built-in TYPE CODE (not settable) will identify the module to the control panel, so as to differentiate between a control module and a relay module.

FEATURES & BENEFITS

- Built-in type identification automatically identifies these devices to the control panel
- Internal circuitry and relay powered directly by two-wire SLC loop
- Integral LED “blinks” green each time a communication is received from the control panel and turns on in steady red when activated
- High noise immunity (EMF/RFI)
- Wide viewing angle of LED
- SEMS screws with clamping plates for wiring ease
- Direct-dial entry of address: 61 -99 for models SMX and STX

HM-D240CMO-UL Technical Specifications

PARAMETER	SPECIFICATION
Normal operating voltage	15 to 32 VDC
Maximum SLC current draw	6.5 mA (LED on)
Average operating current	230 μ A direct poll (CLIP mode) with LED flashing
EOL resistance	Not Used.
Temperature range	32°F to 120°F (0°C to 49°C)
Humidity range	10% to 93% non-condensing
Dimensions	4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.215" (5.398 cm) deep box

Relay Contact Ratings

- **Load Descripton:** Resistive
- **Application:** Non-Coded
- **Maximum Voltage:** 30 VDC
- **Current Rating:** 3.0 A

Agency Listings and Approvals

Listing and approval below apply to the modules specified in this. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S35595

Product Line Information

HM-D240CMO-UL	Intelligent addressable relay module
SMB500	Optional surface-mount backbox
CB500	Optional control module barrier, required by UL for separating power-limited and non-power-limited wiring in the same junction box as HM-D240CMO-UL

NOTE: For installation instructions, see document CN-MN-0195 and refer to the SLC Wiring Manual.

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HM-DCMO-UL

General

The HM-DCMO-UL Addressable Control Module provides a circuit for Notification appliances like horns, strobes, and more. Addressability allows the HM-DCMO-UL to be activated through panel programming, on a select (zone or area of coverage) basis.

Applications

The HM-DCMO-UL is used to switch 24 VDC audible/visual power.

Construction

- The face plate is made of off-white, heat resistant plastic
- Controls include two rotary switches for direct-dial entry of address-setting
- The HM-DCMO-UL is configured for a single Class B Notification Appliance Circuit

Operation

Each HM-DCMO-UL uses one of the module addresses on a SLC loop. It responds to regular polls from the control panel and reports its type and status, including the open/normal/ short status of its Notification Appliance Circuit (NAC). The LED blinks with each poll received. On command, it activates its internal relay. The HM-DCMO-UL supervises Class B notification or control circuits.

Upon code command from the panel, the HM-DCMO-UL will disconnect the supervision and connect the external power supply in the proper polarity across the load device. The disconnection of the supervision provides a positive indication to the panel that the control relay turned ON. The external power supply is always relay-isolated

from the communication loop, so that a trouble condition on the external power supply doesn't interfere with the rest of the system.

Rotary switches set a unique address for each module. The address may be set before or after mounting. The built-in TYPE CODE (not settable) of the control panel will identify the module, so as to differentiate between a module and a sensor address.



HM-DCMO-UL

FEATURES & BENEFITS

- Built-in type identification automatically matches devices to the control panel
- Internal circuitry powered directly by a two-wire SLC loop The HM-DCMO-UL module requires power (for horns, strobes, etc.)
- Integral green LED blinks each time a communication is received from the control panel and turns on steady red when activated
- High noise immunity (EMF/RFI)
- The HM-DCMO-UL may be used to switch 24-volt NAC power
- Wide viewing angle of LED
- SEMS screws with clamping plates for easy wiring
- Direct-dial entry of address: 61 -99 for models SMX and STX

HM-DCMO-UL Technical Specifications

PARAMETER	SPECIFICATION
Normal operating voltage	15 to 32 VDC
Maximum SLC current draw	6.5 mA (LED on)
Average operating current	350 µA direct poll (CLIP mode) with LED flashing
External supply voltage	maximum 80 Volts (RMS or DC)
Drain on external supply	2 mA maximum (using internal EOL relay)
EOL resistance	47K ohms
Temperature range	32°F to 120°F (0°C to 49°C)
Humidity range	10% to 93% non-condensing
Dimensions	<ul style="list-style-type: none">• 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep• Mounts to a 4" (10.16 cm) square x 2.215" (5.398 cm) deep box

Agency Listings and Approvals

Listing and approval below apply to the modules specified in this. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- ULC: S35595

Product Line Information

HM-DCMO-UL	Intelligent addressable control module
SMB500	Optional surface-mount backbox
CB500	Optional control module barrier, required by UL for separating power-limited and non-power-limited wiring in the same junction box as HM-DCMO-UL

NOTE: For installation instructions, see document CN-MN-0194 and refer to the SLC Wiring Manual.

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HM-DISO-UL

General

The HM-DISO-UL Fault Isolator Module is used with the fire alarm control panels (FACPs) to protect the system against wire-to-wire short circuits on the SLC loop. The HM-DISO-UL should be placed between each device on the SLC loop to isolate a short circuit problem between the modules. It is required for true Style 7 operation, so that other devices can continue to operate normally in the event of a short circuit on the SLC.

Application

The Fault Isolator Modules should be spaced between groups of sensors in a loop to protect the rest of the loop. The HM-DISO-UL supports a maximum of 25 devices in between isolators.



HM-DISO-UL

FEATURES & BENEFITS

- Powered by SLC loop directly, no external power required
- Mounts in standard junction boxes (4.0"/10.16 cm square, 2.125"/5.398 cm deep)
- Integral LED blinks to indicate normal condition and illuminates steady when short circuit condition is detected
- High noise (EMF/RFI) immunity

HM-DISO-UL Technical Specifications

SPECIFICATIONS	
Operating voltage	15 – 32 VDC (peak)
Maximum current upon activation due to short circuit	Refer to the manual for the main FACP
Standby current	450 μ A maximum; HM-DISO-UL is not isolated through a closed relay
Temperature range	32°F to 120°F (0°C to 49°C)
Relative humidity	10% to 93%
Weight	5 oz. (150 grams)
Dimensions	4.5"H x 4.5"W x 0.25" D (11.43 cm H x 11.43 cm W x 0.635 cm D)

Construction

The face plate is made of off-white plastic. Module includes yellow LED indicator that pulses to indicate normal conditions and illuminates steady when a short is detected.

Operation

The circuit is automatically opened when the voltage line drops below four volts. Fault Isolator Modules should be spaced between groups of addressable devices (maximum 25), in a loop that protects the rest of the loop. If a short occurs between any two isolators, then both isolators immediately switch to an open circuit state and isolate the groups of sensors between them. The remaining units on the loop continue to fully operate.

The HM-DISO-UL Fault Isolator Module automatically restores the shorted portion of the communications loop to normal.

Installation

- Mount on a standard junction box (4.0"/10.16 cm square) which is at least 2.125"/5.398 cm deep
- Terminal screws are provided for "in and out" wiring
- Installation instructions are provided with each module
- Surface mount box available

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Engineering Specifications

Fault Isolator Modules shall be provided to automatically isolate wire-to-wire short circuits on an SLC loop. The Fault Isolator Module limits the number of modules or detectors that may be rendered inoperative by a short circuit fault on the SLC Loop. If a wire-to-wire short occurs, the Fault Isolator Module automatically disconnects the SLC loop. When the short circuit condition is corrected, the Fault Isolator Module automatically reconnects the isolated section of the SLC loop. The Fault Isolator Module doesn't require any address, as operations switch to automatic mode. Replacing or resetting the Fault Isolator Module is not required, after operating normally. The Fault Isolator Module shall mount in a standard 4" (10.16 cm) deep electrical box, in a surface mounted backbox, or in the Fire Alarm Control Panel. It provides a single LED that flashes when the Isolator is operational and illuminates steadily to indicate that a short circuit condition has been detected and isolated.

Agency Listings and Approvals

Listing and approval below apply to the modules specified in this. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S35595

Product Line Information

HM-DISO-UL	Isolator module
SMB500	Optional surface-mount backbox

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HM-DMMI-UL, HM-MM3E-UL, HM-DCZRM-UL



General

Three different monitor modules are available for fire alarm control panels – suiting a variety of applications. Monitor modules supervise a circuit of drycontact input devices, such as conventional heat detectors and pull stations, or to monitor and power two-wire smoke detector circuits.

HM-DMMI-UL is a standard-sized module (typically mounts to a 4”/10.16 cm square box) that supervises Class B circuit of dry contact input devices.

HM-MM3E-UL is a miniature monitor module – 1.3” (3.302 cm) H x 2.75” (6.985 cm) W x 0.65” (1.651 cm) D – that supervises Class B circuit of dry-contact input devices. Thanks to its compact design, the HM-MM3E-UL can be mounted in a single-gang box behind the device it monitors.

HM-DCZRM-UL is a standard-sized module used to monitor and supervise compatible two-wire, 24-Volt, smoke on a Class B circuit.

The HM-DMMI-UL Monitor Module is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. It provides either a two-wire or four-wire fault-tolerant Initiating Device Circuit (IDC) for normally open, contact fire alarm and supervisory devices. The module has a panel-controlled LED indicator.

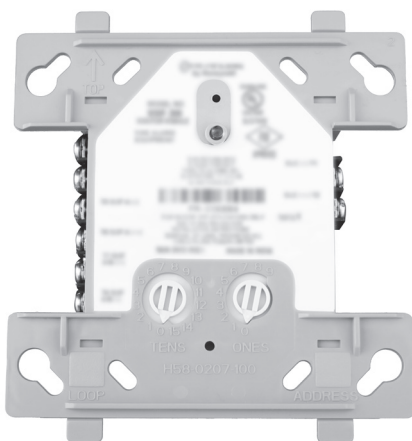
HM-DMMI-UL Applications

Monitor a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally open, drycontact alarm activation devices. Use it to monitor normally-open supervisory devices with special supervisory indication at the control panel. The monitored circuit may be wired as an NFPA (Class B) Initiating Device Circuit. A 47K Ohm end of line resistor (provided) terminates the Class B circuit.

HM-DMMI-UL Operation

Each HM-DMMI-UL uses one of the available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module communicates with the control panel. The LED steadily illuminates when an alarm starts (subject to current loop limitations).

HM-DMMI-UL Monitor Module



HM-DMMI-UL

- Built-in type identification automatically identifies this device as a monitor module to the control panel
- Powered directly by two-wire SLC loop. No additional power required
- High noise (EMF/RFI) immunity
- SEMS screws with clamping plates for easy wiring
- Direct-dial entry of address: 61-99 for models SMX and STX
- LED flashes during normal operation and steadily illuminates to indicate alarm

HM-DMMI-UL Specifications

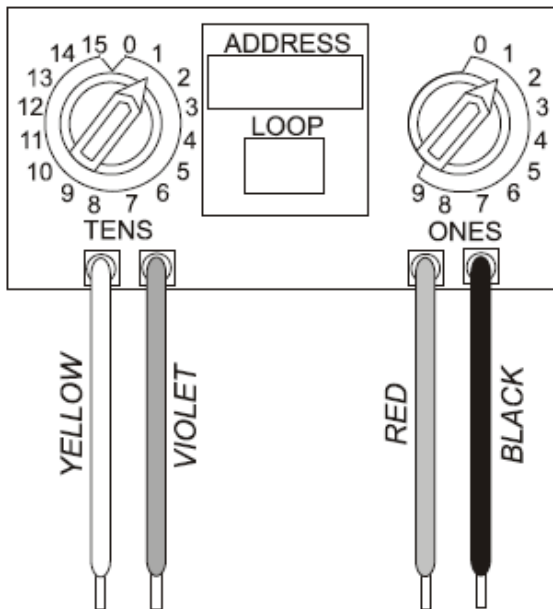
Nominal operating voltage	15 to 32 VDC
Maximum current draw	5.0 mA (LED on)
Average operating current	375 μ A (LED flashing), 1 communication every 5 seconds, 47k EOL
Maximum IDC wiring resistance	1500 Ohms
Maximum IDC Voltage	11 V
EOL resistance	47K Ohms
Temperature range	32°F to 120°F (0°C to 49°C)
Humidity range	10% to 93% non-condensing
Dimensions	4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box

HM-MM3E-UL Min-Monitor Module



HM-MM3E-UL

- Powered directly by two-wire SLC loop
No additional power required
- High noise (EMF/RFI) immunity
- Tinned, stripped leads for easy wiring
- Direct-dial entry of address:
61-99 for models SMX and STX



The HM-MM3E-UL Min-Monitor Module can be installed in a single-gang junction directly behind the monitored unit. Its small size and light weight allow it to be installed without rigid mounting. The HM-MM3E-UL is intended for use in intelligent, two-wire systems where the individual address of each module is selected using rotary switches. It provides a two-wire initiating device circuit for normally open, contact fire alarm devices.

HM-MM3E-UL Applications

Use to monitor a single device or a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally open, dry contact devices. Monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit/device is wired as an NFPA Class B Initiating Device Circuit. A 47K Ohm end of line resistor (provided) terminates the circuit.

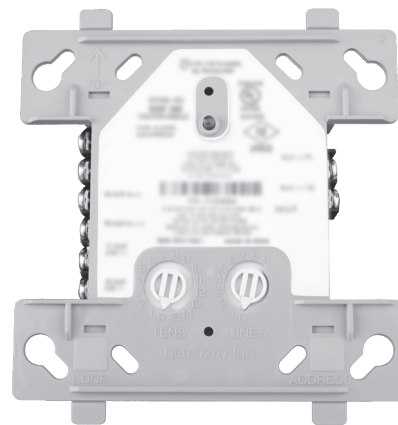
HM-MM3E-UL Operation

Each HM-MM3E-UL uses one of the available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC).

HM-MM3E-UL Specifications

Nominal operating voltage	15 to 32 VDC
Average operating current	350 μ A, 1 communication every 5 seconds, 47k EOL; 600 μ A Max. (Communicating, IDC Shorted)
Maximum IDC wiring resistance	1500 Ohms
Maximum IDC Voltage	11 V
Maximum IDC Current	450 μ A
EOL resistance	47K Ohms
Temperature range	32°F to 120°F (0°C to 49°C)
Humidity range	10% to 93% non-condensing
Dimensions	1.3" (3.302 cm) high x 2.75" (6.985 cm) wide x 0.65" (1.651 cm) deep
Wire length	6" (15.24 cm) minimum

HM-DCZRM-UL Interface Module



HM-DCZRM-UL

- Supports compatible two-wire smoke detectors
- Supervises IDC wiring and connection of external power source
- High noise (EMF/RFI) immunity
- SEMS screws with clamping plates for ease of wiring
- Direct-dial entry of address:
61 -99 for models SMX and STX
- LED flashes during normal operation
- LED steadily illuminates to indicate an alarm on command from the control panel

The HM-DCZRM-UL Interface Module is intended for use in intelligent, addressable systems, where the individual address of each module is selected using built-in rotary switches. This module allows intelligent panels to interface and monitor two-wire conventional smoke detectors. It transmits the status (normal, open, or alarm) of one full zone of conventional detectors back to the control panel. All two-wire detectors being monitored must be UL compatible with the module.

HM-DCZRM-UL Applications

Use the HM-DCZRM-UL to monitor a zone of two-wire smoke detectors. The monitored circuit may be wired as an NFPA Class B Initiating Device Circuit. A 3.9 K Ohm end of the line resistor (provided) terminates the end of the Class B circuit (maximum IDC loop resistance is 25 Ohms).

HM-DCZRM-UL Operation

Each HM-DCZRM-UL uses one of the available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED steadily illuminates when an alarm is on (subject to current loop limitations).

HM-DCZRM-UL Specifications

Nominal operating voltage	15 to 32 VDC
Maximum current draw	5.1 mA (LED on)
Maximum IDC wiring resistance	25 Ohms
Average operating current	270 μ A, 1 communication and 1 LED flash every 5 seconds, 3.9k eol
EOL resistance	3.9K Ohms
External supply voltage (between Terminals T10 and T11)	<ul style="list-style-type: none">DC voltage: 24 V power limitedRipple voltage: 0.1 Vrms maximumCurrent: 90 mA per module maximum
Temperature range	32°F to 120°F (0°C to 49°C)
Humidity range	10% to 93% non-condensing
Dimensions	4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box

Installation

HM-DMMI-UL, and HM-DCZRM-UL modules mount directly to a standard 4" (10.16 cm) square, 2.125" (5.398 cm) deep, electrical box. They may also be mounted to the SMB500 surface mount box. Mounting hardware and installation instructions are provided with each module. All wiring must conform to applicable local codes, ordinances, and regulations. These modules are intended for power-limited wiring only.

The HM-MM3E-UL module is intended to be wired and mounted without rigid connections, inside a standard electrical box. All wiring must conform to applicable local codes, ordinances, and regulations.

Agency Listings and Approvals

Listing and approval below apply to the modules specified in this. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S35595

Product Line Information

HM-DMMI-UL	Addressable Monitor Module
HM-MM3E-UL	Addressable Min-Monitor Module
HM-DCZRM-UL	Addressable Interface Module

NOTE: See installation instructions CN-MN-0196, CN-MN-0197 and CN-MN-0198 and refer to the SLC Wiring Manual.

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HM-DMMI-UL, HM-MM3E-UL,
HM-DCZRM-UL | Rev 01 | 08/19

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HM-FHSE-UL, HM-RHSE-UL HM-HTSE-UL



General

The HM-FHSE-UL, HM-RHSE-UL and HM-HTSE-UL Series thermal detectors are addressable sensors that use a state-of-the-art thermistor sensing circuit for fast response. These sensors provide protection for open areas and can be used with addressable Fire Alarm Control Panels (FACPs).

The HM-FHSE-UL and HM-RHSE-UL sensors provide fixed temperature detection at 135°F (57°C). The HM-RHSE-UL sensor also responds to rate of rise conditions of greater than 15°F (8.3°C) per minute. The HM-HTSE-UL is a fixed, high-temperature detector that activates at 190°F (88°C). These thermal detectors provide addressable property protection for a variety of applications.

Comes with two LEDs on each sensor that provide a local, visible sensor indication. The remote LED annunciator capability is available using an optional accessory, the RA100Z.

Installation

The HM-FHSE-UL Series of plug-in, intelligent thermal detectors use a detachable base to simplify installation, service, and maintenance. Installation instructions are shipped with each detector.

Mount base on an electrical backbox which is at least 1.5" (3.81 cm) deep. For a chart of compatible junction boxes, see DF-60059.

Application

Use thermal detectors for protection of property.

Construction

These detectors are constructed of off-white fire-resistant plastic. The HM-FHSE-UL Series plug-in, intelligent thermal detectors are designed to commercial standards and come with an appealing design.

Operation

Each HM-FHSE-UL Series detector uses one of 159 or 59 (Model: STX, 98 devices) possible addresses on a control panel SLC loop. It responds to regular polls from the control panel and reports type and status. If it receives a test command from the panel (or a local magnet test), the detector stimulates its electronics and reports an alarm. The LEDs blink when polled and the detector turns the LEDs on when commanded by the panel. The HM-FHSE-UL Series offer features and performance that represent the latest in thermal detector technology.

FEATURES & BENEFITS

SLC Loops:

- Two-wire SLC loop connection
- Unit uses base for wiring

Addressing:

- Addressable by device
- Rotary, decimal addressing:
1- 159 for models SMX and STX

Architecture:

- Sleek, low-profile, stylish design
- State-of-the-art thermistor technology for fast response
- Integral communications and built-in device-type identification
- Built-in tamper resistant feature
- Built-in functional test switch activated by external magnet

Operation:

- Factory preset at 135°F (57°C) for the HM-FHSE-UL and HM-RHSE-UL; 190°F (88°C) for the HM-HTSE-UL
- Rate-of-rise triggers at 15°F (8.3°C) per minute for the H355R(A)
- 360-degree viewing angle of the visual alarm indicators. LEDs blink red in Normal condition and steadily illuminate red in Alarm
- Visible LEDs blink every time the unit is addressed

Mechanicals:

- Sealed against back pressure
- SEMS screws for wiring of the separate base
- Designed for direct-surface or electrical-box mounting
- Plugs into separate base for ease of installation and maintenance

Other system features:

- Remote test feature from the panel
- Walk test with address display
- Low standby current
- 94-5V plastic flammability rating

Options:

- Flanged surface mounting kit

HM-FHSE-UL, HM-RHSE-UL, HM-HTSE-UL Technical Specifications

PARAMETER	SPECIFICATION
Size	<ul style="list-style-type: none"> • 2.1" (5.3 cm) high; base determines diameter • B501: 4.1" (10.4 cm) diameter
Shipping weight	4.8 oz. (137 g)
Installation temperature	<ul style="list-style-type: none"> • HM-FHSE-UL, HM-RHSE-UL: -4°F to 100°F (-20°C to 38°C) • HM-HTSE-UL: -4°F to 150°F (-20°C to 66°C)
Humidity range	10% to 93% relative humidity (non-condensing)
Voltage range	15 to 32 VDC peak
Standby current	300 μ A @ 24 VDC (one communication every five seconds with LED blink enabled)
LED current	6.5 mA @ 24 VDC
Fixed-temperature setpoint	135°F (57°C) for the HM-FHSE-UL and HM-RHSE-UL; 190°F (88°C) for the HM-HTSE-UL
Rate-of-rise detection	Responds to greater than 15°F (8.3°C) per minute

ACCESSORIES	
SMB600	Surface mounting kit
M02-04-00	Test magnet
M02-09-00	Test magnet with telescoping handle
XR2B	Detector removal tool. Allows installation and/or removal of detector heads from bases in high ceiling applications
XP-4	Extension pole for XR2B. Comes in three, 5-foot (1.524 m) sections
T55-127-010	Detector removal tool without pole

Agency Listings and Approvals

Listing and approval below apply to the modules specified in this. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S36217

PRODUCT LINE INFORMATION	
HM-FHSE-UL	Intelligent thermal sensor; 135° F (57° C); B501 base included
HM-RHSE-UL	Same as HM-FHSE-UL with rate of rise feature; B501 base included
HM-HTSE-UL	Intelligent, fixed, high-temperature thermal detector; 190° F (88° C); B501 base included

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HM-HTSE-UL | Rev 01 | 07/19

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HM-MCP-GLASS-UL



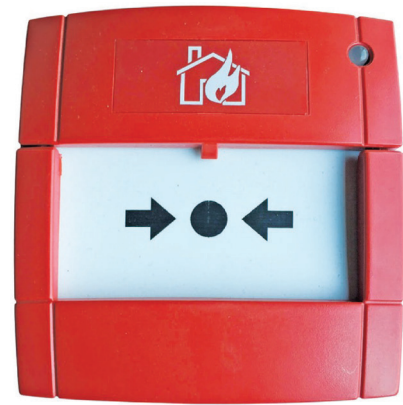
General

The HM-MCP-GLASS-UL is an addressable manual break glass call point which, as a simple rotary decade, switch at the rear of the unit for addressing.

A specialist test key may be inserted into the bottom of the unit to lower the glass and release the micro-switch – enabling a complete functionality test.

The HM-MCP-GLASS-UL call point is designed to provide a manual alarm interface to Morley IAS's fire alarm control panel.

Installation efficiency and compliance with the latest standards are at the heart of the call point range.

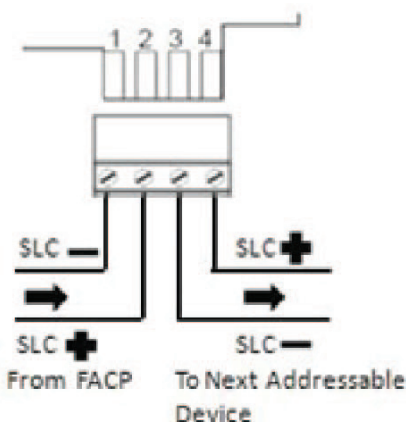


HM-MCP-GLASS-UL

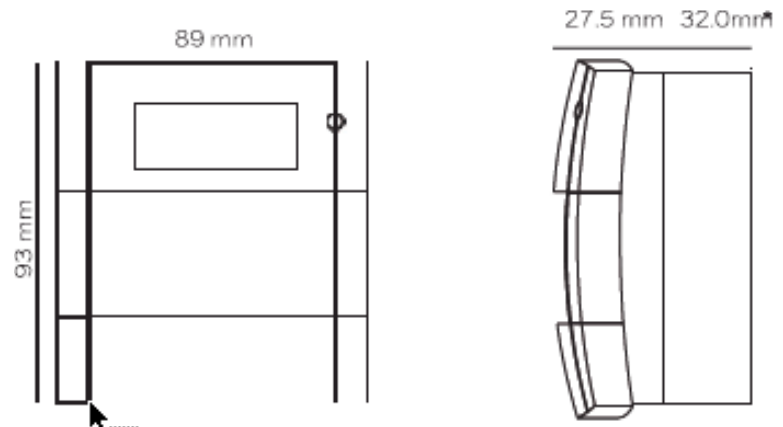
LED Status

The LED status is controlled by the fire panel and shows blinking RED each time the device is polled, or continuous RED to indicate fire detection.

Connection Details



Dimensions



FEATURES & BENEFITS

- Innovative "Plug and Play" installation concept
- Analogue addressable communications
- Integral LED

HM-MCP-GLASS-UL Technical Specifications

Mechanical Specifications

PARAMETER	SPECIFICATION
Dimensions	<ul style="list-style-type: none">• Semi-flush mounting: 89 x 93 x 27.5 (WxHxD)• Surface mounting: 89 x 93 x 59.5 (WxHxD)
Weight	110g (3.8 oz.)
IP Rating	IP24D
Operating Temperature	0°C to 49°C (32°F – 120°F)
Relative Humidity	10% - 93% non-condensing

Electrical Specifications

PARAMETER	SPECIFICATION
Operating Voltage	15V to 32Vdc max
Current Consumption	Quiescent (without isolator) 385µA Alarm Current: 7.8 mA

Optional Accessories

PART CODE	DESCRIPTION
PS230	Pack of 10 resettable elements
MUS041W	Manual call point back box
MUS156	Pack of 10 glass elements
SC070	Pack of 10 test keys

Agency Listings and Approvals

Listing and approval below apply to the modules specified in this. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S36215

Product Line Information

HM-MCP-GLASS-UL: Addressable break glass manual call point

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HM-PSE-UL

General

The HM-PSE-UL addressable, low-profile plug-in photoelectric detectors use a state-of-the-art photoelectric sensing chamber with communications to provide open area protection – used exclusively with Fire Alarm Control Panels (FACPs). Since these detectors are addressable, they will help emergency personnel quickly locate a fire during its early stages, saving precious rescue time while also reducing property damage. It comes with two LEDs on each sensor light to provide a local, visible sensor indication.

Applications

The HM-PSE-UL uses photoelectric detectors in life safety applications to provide a broad range of fire-sensing features, especially where smoldering fires are anticipated. Ionization detectors are often better than photoelectric detectors at sensing fast, flaming fires.

Construction

These detectors are constructed of off-white, fire resistant plastic. HM-PSE-UL plug-in, low-profile smoke detectors are designed to commercial standards and have an appealing design.

Installation

HM-PSE-UL plug-in detectors use a detachable mounting base to simplify installation, service, and maintenance.

Mount base (all base types) on an electrical backbox which is at least 1.5" (3.81 cm) deep. For a chart of compatible junction boxes, see DF-60059.



HM-PSE-UL

Operation

HM-PSE-UL has a unique unipolar chamber that responds quickly and uniformly to a broad range of smoke conditions. It can withstand wind gusts up to 4,000 feet-per-minute (20 m/sec.) without sending an alarm level signal. Because of its unipolar chamber, the HM-PSE-UL is approximately two times more responsive than most photoelectric sensor – offering enhanced stability.

FEATURES & BENEFITS

SLC Loop:

- Two-wire SLC loop connection
- Unit uses base for wiring

Addressing:

- Addressable by device
- Rotary, decimal addressing:
1- 159 for models SMX and STX

Architecture:

- Unique single-source, dual-chamber design to respond quickly and dependably to a broad range of fires
- Sleek, low-profile design.
- Integral communications and built-in type identification
- Built-in tamper-resistant feature
- Removable cover and insect-resistant screen for simple field cleaning

Operation:

- Withstands air velocities up to 4,000 feet-per-minute (20 m/sec.) without triggering a false alarm
- Factory preset at 1.5% nominal sensitivity for panel alarm threshold level
- Visible LED blinks when the unit is addressed (communicating with the fire panel) and latches on in Alarm mode

Mechanicals:

- Sealed against back pressure
- Direct surface mounting or electrical box mounting
- Mounts to: single-gang box, 3.5" (8.89 cm) or 4.0" (10.16 cm) octagonal box, or 4.0" (10.16 cm) square electrical box (using a plaster ring – included)

Other System Features:

- Fully coated circuit boards and superior RF/transient protection
- 94-V0 plastic flammability rating
- Low standby current

HM-PSE-UL Technical Specifications

SPECIFICATION	
Voltage range	15 – 32 VDC (peak)
Standby current	300 µA @ 24 VDC
LED current	6.5 mA @ 24 VDC (latched "ON")
Air velocity	4,000 ft./min. (20 m/sec.) maximum
Size	• 2.1" (5.33 cm) high; base determines diameter • B501: 4.1" (10.4 cm) diameter
Weight	3.6 oz. (102 g)
Operating temperature range	for HM-PSE-UL: 0°C to 49°C (32°F to 120°F)
Temperature	0°C – 49°C (32°F – 120°F)
Relative humidity	10% – 93%, non-condensing

ACCESSORIES	
SMB600	Surface mounting kit
M02-04-00	Test magnet
M02-09-00	Test magnet with telescoping handle
XR2B	Detector removal tool. Allows installation and/or removal of detector heads from bases in high ceiling applications
XP-4	Extension pole for XR2B. Comes in three 5-foot (1.524 m) sections
T55-127-010	Detector removal tool without pole

Agency Listings and Approvals

Listing and approval below apply to the modules specified in this. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S36216

Product Line Information

HM-PSE-UL: Addressable photoelectric detector; B501 base included

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HM-PTSE-UL

General

The HM-PTSE-UL detector is an intelligent, addressable, multi-sensing, low-profile detector designed for Fire Alarm Control Panels.

The detector uses a combination of photoelectric and thermal sensing technologies to reduce to false alarms. Unlike traditional intelligent detectors, it has a microprocessor that processes alarm data. As a result, the detector adjusts its sensitivity automatically, without operator intervention or control panel programming.

Areas where the detector is especially useful include office complexes, schools, college campuses, manufacturing, and industrial facilities, and anywhere else where the use of a particular area may change. The detector automatically adjusts its sensitivity to the environment.

Installation

The HM-PTSE-UL plug-in detector uses a separate base to simplify installation, service, and maintenance. A special tool allows maintenance personnel to plug-in and remove detectors without using a ladder. Suitable mounting base boxes include:

- 4.0" (10.16 cm) square box
- 3.5" (8.89 cm) or 4.0" (10.16 cm) octagonal box
- Single-gang box (except relay or isolator base)



HM-PTSE-UL

NOTE: Avoid installing these detectors in locations that are susceptible to rapid and high temperature changes. An example of an incorrect application would be near or in line with the output of a self-contained heater.

FEATURES & BENEFITS

- Automatically adjusts sensitivity levels without operator intervention or programming
- Sensitivity increases with heat
- Microprocessor-based, combination photo and thermal technology
- Addressable-analog communication
- Sleek, low-profile design
- Two-wire SLC connection
- Addressing:
 - Addressable by device
 - Rotary, decimal addressing: 1- 159 for models SMX and STX
- Addresses can be viewed and changed without electronic programmers
- Dual bi-color LED design provides 360° viewing angle
- LEDs lock red when in alarm.
- Built-in, tamper-resistant feature
- Constructed of off-white, fire-resistant plastic, designed to commercial standards, and offers an attractive appearance
- SEMS screws for wiring of the separate base
- Several base options, including relay, isolator, and sounder
- Built-in functional test switch activated by external magnet
- Listed to UL 268

HM-PTSE-UL Technical Specifications

TECHNICAL SPECIFICATIONS	
Parameter	Specification
Sensitivity fixed-sensitivity levels	1, 2, and 4%/ft with classic CLIP systems
Size	<ul style="list-style-type: none"> • 2.0" (53 cm) height, base determines diameter • B501: 4.1" (10.4 cm) diameter
Shipping weight	5.2 oz (147g)
Operating temperature	0°C to 38°C (32°F to 100°F)
UL-Listed velocity range	0 – 4000 ft./min. (1219.2 m/min.), suitable for installation in ducts
Relative humidity	10% – 93% non-condensing
Thermal sensing rating	fixed-temperature setpoint 135°F (57°C)

ELECTRICAL SPECIFICATIONS	
Parameter	Specification
Voltage range	15 – 32 volts DC peak
Standby current (max. avg.)	300 µA
Loop resistance	50 ohms maximum; varies according to control panel used. Refer to panel installation manuals
LED current (max.)	6.5 mA @ 24 VDC ("ON")

ACCESSORIES	
SMB600	Surface mounting kit
M02-04-00	Test magnet
M02-09-00	Test magnet with telescoping handle
XR2B	Detector removal tool. Allows installation and/or removal of detector heads from bases in high ceiling applications
T55-127-010	Detector removal tool without pole
XP-4	Extension pole for XR2B. Comes in three 5-foot (1.524m) sections

Agency Listings and Approvals

Listing and approval below apply to the modules specified in this. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S36216

Product Line Information

HM-PTSE-UL: Low-profile, intelligent, multi-sensor detector

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315-040

LED Driver Module



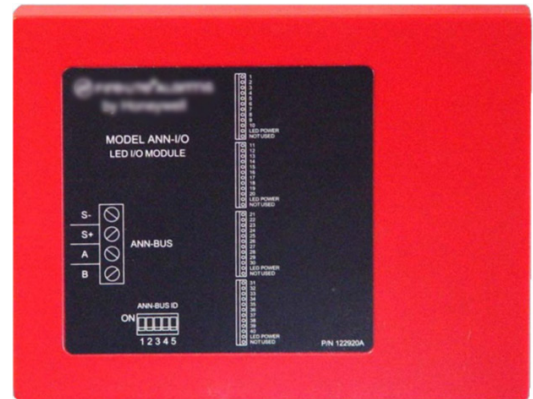
UL-LISTED

General

The 315-040 is an LED driver module that can be used in a wide variety of applications including as an interface with the Fire Alarm Control Panel (FACP) to drive most customized graphic annunciators. It comes in a plastic enclosure that may be mounted inside a custom annunciator or accessory cabinet and can drive up to 40 LEDs.

The 315-040 and the FACP communicate over a two-wire serial interface employing the RS485 Repeater-Bus communication format. An additional two wires are used for 24-volt DC power. A single four-conductor unshielded cable may be used for both power and data communications.

Up to eight RS485 Repeater-Bus devices may be connected to the RS485 Repeater-Bus of each FACP.



KEY FEATURES

- 315-040 connects to the Repeater-Bus terminal on the FACP and requires minimal programming
- Each 315-040 module drives up to 40 LEDs
- Programmable to indicate activity for points or zones
- Compatible with Honeywell Morley STX and SMX fire panel models
- Can be remotely located up to 6,000 feet (1,829 m) from the panel
- May be powered by 24 VDC from the host FACP or by remote power supply (requires 24 VDC)
- Up to eight Repeater-Bus devices may be connected to the Repeater-Bus of each FACP

315-040 Technical Specifications

Maximum Repeater-Bus Voltage	24 VDC
Maximum Current	Alarm: 200 mA, Standby: 35 mA, Each LED: 10mA
Maximum wiring distance from FACP	6000 ft. (1829 m.)
Ambient Temperature	32°F to 120°F (0°C to 49°C)
Relative Humidity	93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F)
For use indoors	in a dry location
Connections to FACP	power-limited and supervised
External measurements	6.00" (15.2 cm.) high x 7.76" (19.7 cm.) wide x 1.46" (3.7 cm.) deep

Agency Listings and Approvals

The listings and approvals below apply to the 315-040. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S36108

The Repeater-Bus:

- **Powering the devices on the repeater-bus from auxillary power supply**
Repeater-bus devices can be powered by an auxiliary power supply when available panel power is exceeded. See facp manual for information.
- **Repeater-Bus device addressing**
Each Repeater-Bus device requires a unique address (ID number) in order to communicate with the facp. A maximum of eight devices can be connected to the FACP Repeater-Bus communication circuit. See the facp manual for more information.

For more information

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LED Driver Module | Rev 01 | 08/19
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ExitPoint™

Directional Sounder with Voice Messaging



Audio/Visual Devices

General

The *ExitPoint™ Directional Sounder* has an integral audio amplifier that produces a pulsating sound consisting of broadband low, mid, and high range sounds. The broadband noise makes it possible to determine the location of the sound. There are four pulse patterns that can be used to create an egress pathway out of a building and to mark perimeter exits. In addition to the broadband noise, the sounder is capable of playing an alert message in the form of a recorded voice message or other audible signals. These messages will instruct the occupants of what action to take as they approach the directional sounder, and will allow them to react quickly and confidently when the sounder is activated. Fifteen different language combinations are available to instruct occupants that they are nearing an exit, a stairway up, a stairway down, or an area of refuge. The directional sounder also incorporates an optional disable feature for use in conjunction with a control module or heat sensor.

The directional sounder features a number of field selectable power settings including high, medium-high, medium-low, and low. Installation ease and pleasing aesthetics are achieved by a low profile compact design, and by the ability to flush mount in a 4" x 4" x 2¼" back-box.

ExitPoint directional sounders, fitted in addition to normal building evacuation sounders, draw people to evacuation routes in both good and poor visibility. The directional sounder can be used in a wide range of building applications. Trials consistently have shown an improvement of up to 75 percent in evacuation times in smoke and up to 35 percent without smoke. The 2007 Edition of NFPA 72 now provides installation and maintenance guidelines on directional sounders.

Features

- Listed to UL 464 (indoor applications only)
- Five field-selectable power settings
- Four field-selectable routing evacuation patterns
- Constructed to be effective in unfamiliar surroundings or poor visibility
- Designed to work in open areas, corridors, or stairs
- Fifteen different language selections available
- Reduces evacuation times by as much as 75 percent
- Optional disable feature for use in conjunction with a control module or heat sensor
- Low profile, compact design

Specifications

ELECTRICAL SPECIFICATIONS

Voltage Input: Regulated 24 Volts

Operating Voltage Range: 16 to 33 Volts

Operating Temperature: 32°F to 120°F (0°C to 49°C)

Power Setting: High, medium-high, medium, medium-low, low

MECHANICAL SPECIFICATIONS

Input Terminals: 12-24 AWG

Speaker Size: 4" (101 mm)

Grille Size: 4 7/8" (127 mm)



7044photo1.jpg

Additional Tone Selection

Switch Position 5 Setting	Switch Position 6 Setting	Sound Output
On	On	Area of Refuge
On	Off	Upstairs
Off	On	Downstairs
Off	Off	Exit Here

Enable/Disable Selection

Switch Position 4 Setting	Terminals 3 & 4	Sound Output
On	Open	Disabled
On	Closed	Enabled
Off	Open	Enabled
Off	Closed	Disabled

Power Setting Guide

DIP Switch Position 1 Setting	DIP Switch Position 2 Setting	DIP Switch Position 3 Setting	Power Setting
Off	Off	Off	High
On	Off	Off	Med-High
Off	On	Off	Med
Off	Off	On	Med-Low
On	On	On	Low

Current Draw Measurements and Sound Output Guide

Speed	DIP Switch Selection	Power Setting	Max DC Operating Current (mA RMS)	Audibility (dBA) Note 1	Audibility (dBA) Note 2
Fast (Exit)	10	High	185	84	75
Fast (Exit)	10	Med-High	131	81	72
Fast (Exit)	10	Med	78	78	69
Fast (Exit)	10	Med-Low	76	75	66
Fast (Exit)	10	Low	64	72	63
Med-Fast	9	High	170	83	74
Med-Fast	9	Med-High	124	80	71
Med-Fast	9	Med	75	77	68
Med-Fast	9	Med-Low	73	74	65
Med-Fast	9	Low	62	71	62
Med-Slow	8	High	135	82	73
Med-Slow	8	Med-High	104	79	70
Med-Slow	8	Med	67	76	67
Med-Slow	8	Med-Low	65	73	64
Med-Slow	8	Low	57	70	61
Slow	7	High	120	82	72
Slow	7	Med-High	92	79	69
Slow	7	Med	62	76	66
Slow	7	Med-Low	61	73	63
Slow	7	Low	54	70	60

Note 1: Sound output measured in anechoic room at 10 feet.
Note 2: Sound output measured in a reverberant room at 10 feet.

Language/Audible Tone Selection Guide

Rotary Switch Selection	Tone/Language		
0	Audible tone/sweep	8	Mandarin
1	English	9	English/Cantonese
2	Spanish	10	English/Mandarin
3	French	11	Cantonese/Mandarin
4	English/Spanish	12	English/Korean
5	English/French	13	English/Portuguese
6	Korean	14	English/Russian
7	Cantonese	15	English/Polish

Agency Listings and Approvals

Consult product manual for lists of compatible UL-Listed devices. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed: S4011
- FM Approved
- CSFM: 7135-1653:175
- MEA Approved: 492-04-E Vol. 2

Ordering Information

- PF24V** ExitPoint Directional Sounder with Voice Messaging
- BBS-SP201W** Surface mount backbox skirt for PF24V

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We try to keep our product information up-to-date and accurate.
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All specifications are subject to change without notice.



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www.notifier.com

315-080

80-Character Serial LCD Annunciator



General

The 315-080 annunciator is a compact, backlit, 80-character LCD fire annunciator that mimics the Fire Alarm Control Panel (FACP) display. It provides system status indicators for AC Power, Alarm, Trouble, Supervisory, and Alarm Silenced conditions. The 315-080 and the FACP communicate over a two-wire serial interface employing the Repeater-Bus communication format. Connected devices are powered, via two additional wires, by either the host FACP or a remote UL-listed, filtered power supply.

The 315-080 displays English-language text of system point information including device type, zone, independent point alarm, trouble or supervisory status, as well as any custom alpha labels programmed into the control panel. It includes control switches for remote control of critical system functions. (A keyswitch prevents unauthorized operation of the control switches.)

Up to eight 315-080 repeaters may be connected to the Repeater-Bus of each FACP. No programming is required, which saves time during system commissioning.



Controls and Indicators

- AC Power
- Alarm
- Supervisory
- Alarm Silenced
- Trouble

KEY FEATURES

- Listed to UL Standard 864, 9th Edition
- Backlit 80-character LCD display (20 characters x 4 lines)
- Mimics all display information from the host panel
- Control switches for System Acknowledge, Signal Silence, and Reset
- Control switches can be independently enabled or disabled at the FACP
- Keyswitch enables/disables control switches and mechanically locks annunciator enclosure
- Keyswitch can be enabled or disabled at the FACP
- Enclosure supervised for tamper
- System status LEDs for AC Power, Alarm, Trouble, Supervisory, and Alarm Silence
- Local sounder can be enabled or disabled at the FACP
- 315-080 connects to the Repeater-Bus terminal on the FACP and requires minimal panel programming
- Displays device type identifiers, individual point alarm, trouble, supervisory, zone, and custom alpha labels
- Time and date display field
- Surface mount directly to wall or to single, double, or 4" square electrical box
- Semi-flush mount to single, double, or 4" square electrical box. Use ANN-SB80KIT for angled view mounting
- Can be remotely located up to 6,000 feet (1,800 m) from the panel
- Backlight turns off during AC loss to conserve battery power but will turn back on if an alarm condition occurs
- May be powered by 24 VDC from the host FACP or by remote power supply (requires 24 VDC)
- Up to eight 315-080 repeaters can be connected on the RS485 Repeater-Bus

315-080 Technical Specifications

Operating voltage range	18 VDC to 28 VDC
Current consumption	@ 24 VDC nominal (filtered and non resettable): 40 mA maximum
Ambient temperature	32°F to 120°F (0°C to 49°C)
Relative humidity	93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F)
Dimension	5.375" (13.65 cm.) high x 6.875" (17.46 cm.) wide x 1.375" (3.49 cm.) deep
For use	Indoors in a dry location
Connections	All connections are power-limited and supervised

The Repeater-Bus:

• Powering the devices on the Repeater-Bus from auxiliary power supply

The Repeater-Bus can be powered by an auxiliary power supply when the maximum number of Repeater-Bus devices exceeds the Repeater-Bus power requirements. See the FACP manual for more information.

• Repeater-Bus Device Addressing

Each Repeater-Bus device requires a unique address (ID Number) in order to communicate with the FACP. A maximum of 8 devices can be connected to the FACP Repeater-Bus communication circuit. See the FACP manual for more information.

• Wire Requirements: Communications Circuit

The 315-080 connects to the FACP Repeater-Bus communications circuit. To determine the type of wire and the maximum wiring distance that can be used with FACP Repeater-Bus accessory modules, it is necessary to calculate the total worst case current draw for all modules on a single 4-conductor bus. The total worst case current draw is calculated by adding the individual worst case currents for each module.

NOTE: For total worst case current draw on a single Repeater-Bus refer to appropriate FACP manual.

• Wire Requirements: Power Circuit

- 14 to 18 AWG (0.75 - 2.08 mm²) wire for 24 VDC power circuit is acceptable. Power wire distance limitation is set by 1.2 volt maximum line drop from source to end of circuit.
- All connections are power-limited and supervised.
- A maximum of eight 315-080 repeater modules may be connected to this circuit.

Agency Listings and Approvals

The listings and approvals below apply to the 315-040. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S36108

Ordering Options

- **315-080:** Red 80 character LCD Annunciator

For more information

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