Honeywell

Excel Life Safety SYSTEM

SIGI-271
Break Glass Call Point

SPECIFICATION DATA

FEATURES

- **Intelligent device with integral microprocessor**
- **Automatic device mapping**
- **Electronic addressing**
- **Non-volatile memory**
- **Stand-alone operation**
- **Alarm LED**
- **Designed for high ambient temperature operation**
- **Flush or surface mount**
- **Glass inserts with multiple languages**
- **Designed to ISO 9001 standards**

DESCRIPTION

The SIGI-271 Break Glass Call Points are part of Honeywell's Signature Series system. These integrated call point assemblies feature the very familiar KAC Installers' Series call point packaged with Honeywell's Signature Series intelligent addressable interface electronics. SIGI-271call points are compatible only with Honeywell's XLS200 and XLS1000 fire alarm panels utilizing a Signature Loop Controller.

The design employs the Signature Series monitor module in a purpose built carrier that is fitted to the back of the call point. The complete unit is equipped with an LED indicator on the front face of the callpoint to confirm operation, and provided with leads with spade connectors on the rear to easily link with system field wiring. The SIGI-271 is being supplied individually boxed and will be accompanied with installation instructions, fixing screws and test key.

In all SIGI-271 Series call points, the switch is held off by the edge of the glass. When the glass is broken by pressing directly on it, the switch is released and an alarm sent to the Signature loop controller. A protective plastic coating on the glass prevents operator injury and inhibits the release of glass fragments. The callpoint can be fitted with a Glass Substitute Card to reduce the potential for damage on site, but will require that commissioning engineers fit an operational glass prior to system hand-over.

The SIGI-271 may be installed either as a flush or surface mounting device in any normal internal environment. For flush mounting, the unit will fit directly into a standard single socket box; a separate terminal tray enables installers to wire to the installation point prior to the fitting of the callpoint itself.

The callpoint may be mounted to a standard SSDSR3T surface box, or directly to a compatible recessed electrical box (in which case the SSDETT-P Terminal Tray is recommended for easy field termination). In either case the mounting accessories must be ordered separately in addition to the standard operating glasses and the SIGI-271 itself.

The SIGI-271 call point is designed for high ambient temperatures of up to 120°F (49°C).

The integral microprocessor built into each Signature Series station provides four important benefits: Self-diagnostics and History Log, Automatic Device Mapping, Stand-alone Operation and Fast, Stable Communication.

Self-Diagnostics and History Log:

Each Signature Series manual call point constantly runs self-checks to provide important maintenance information. The results of the self-check are automatically updated and permanently stored in the call point's non-volatile memory. This information is accessible for review any time at the control panel, PC, or by using the SIGA-PRO Signature Program/Service Tool.

The information stored in the call point's memory includes:

- Call point serial number, address, and type code.
- Date of manufacture, hours of operation, and last maintenance date.
- Number of recorded troubles, alarms, and time and date of last alarm.
- Up to 24 possible trouble codes which can be used to specifically diagnose faults.

Automatic Device Mapping:

The Signature loop controller learns where each device's serial number address is installed relative to other devices on the circuit. The loop controller keeps a "map" of the Signature Series devices connected to it.

Signature Series Data Entry Program also uses the mapping feature. With interactive menus and graphic support, the wired circuits between each device can be determined. Layout or "as-built" drawing information showing the branches (T-taps), device types and their address are stored on disk for printing hard copy. This takes the mystery" out of the installation. The preparation of "as-built" drawings is fast and efficient. Device mapping allows the Signature loop controller to discover:

- Unexpected additional device addresses.
- Missing device addresses.
- Changes to the wiring in the circuit.

Stand-alone Operation:

A decentralized alarm decision by the call point is guaranteed. On-board intelligence permits the call point to operate in stand-alone mode. If loop controller CPU communications fail for more than 4 seconds, all devices on that circuit go into stand-alone mode. The circuit acts like a conventional alarm receiving circuit. Each call point on the loop will still transmit an alarm if its operating lever is pulled.

Fast Stable Communication:

Built-in intelligence means less information needs to be sent between the call point and the loop controller. Other than regular supervisory polling response, the call point only needs to communicate with the loop controller when it has something new to report. This provides very fast control panel response time and allows a lower baud rate (speed) to be used for communication on the loop. The lower baud rate offers several advantages including:

- Less sensitivity to circuit wire characteristics.
- Less sensitivity to noise glitches on the cable.
- Less emitted noise from the analog wiring.
- Twisted or shielded wiring is not required.

Fig.1: Complete Assembly with SSDSR3T Backbox

Electronic Addressing:

The loop controller electronically addresses each call point, saving valuable time during system commissioning. Setting complicated switches or dials is not required. Each call point has its own serial number stored in its "on-board memory". The loop controller identifies each device on the loop and assigns a "soft" address to each serial number. If desired, the call points can be addressed using the SIGA-PRO Signature Program/ Service Tool.

Alarm LED:

A large red LED on the front of the call point provides visual indication of normal and alarm conditions. A flashing LED means the call point is in “alarm” state. A steady-on LED shows alarm state in “stand-alone” mode.

Quality and Reliability:

Honeywell fire alarm call points are manufactured in North America to strict international ISO 9001 standards. All electronics utilize surface mount technology (SMT) for smaller size and greater immunity to RF noise. A conformal coating is used for humidity and corrosion resistance.

Compatibility:

Signature Series call points are compatible only with Honeywell’s XLS200 and XLS1000 fire alarm panels with a Signature Loop Controller.

Application Notes:

The operating characteristics of the fire alarm call points are determined by their sub-type code or "Personality Code". NORMALLY-OPEN ALARM - LATCHING (Personality code 1) is assigned by the factory; no user configuration is required. The device is configured for Class B IDC operation. An ALARM signal is sent to the loop controller when the call point is operated (i.e. when the glass is broken). The alarm condition is latched the call point.

Testing and Maintenance:

To test the call point simply insert the special test key (provided with every unit); the glass drops and the switch closes. Removing the key restores the call point to normal.

The call point's automatic self-diagnosis identifies when it is defective and causes a trouble message. The user-friendly maintenance program shows the current state of each Signature series device and other pertinent messages. Single devices may be deactivated temporarily, from the control panel. Availability of some maintenance features is dependent on the fire alarm system used.

Scheduled maintenance (regular or scheduled) for proper system operation should be planned according to local codes.

Installation and Mounting:

The Signature Series fire alarm call points flush mount to European General Purpose Outlet Boxes using the SSDETT-P European Terminal Tray. Surface mounting requires the SSDSR3T backbox.

Honeywell recommends that these call points be installed according to the latest recognized edition of national and local codes.

NOTE: This module will not operate without electrical power. As fires frequently cause power interruption, we suggest you discuss further safeguards with your fire protection specialist.

Fig.2: SSDSR3T Flush Mount Backbox

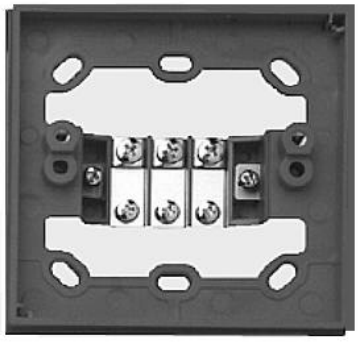

Fig.3: SSDETT-P European Terminal Tray

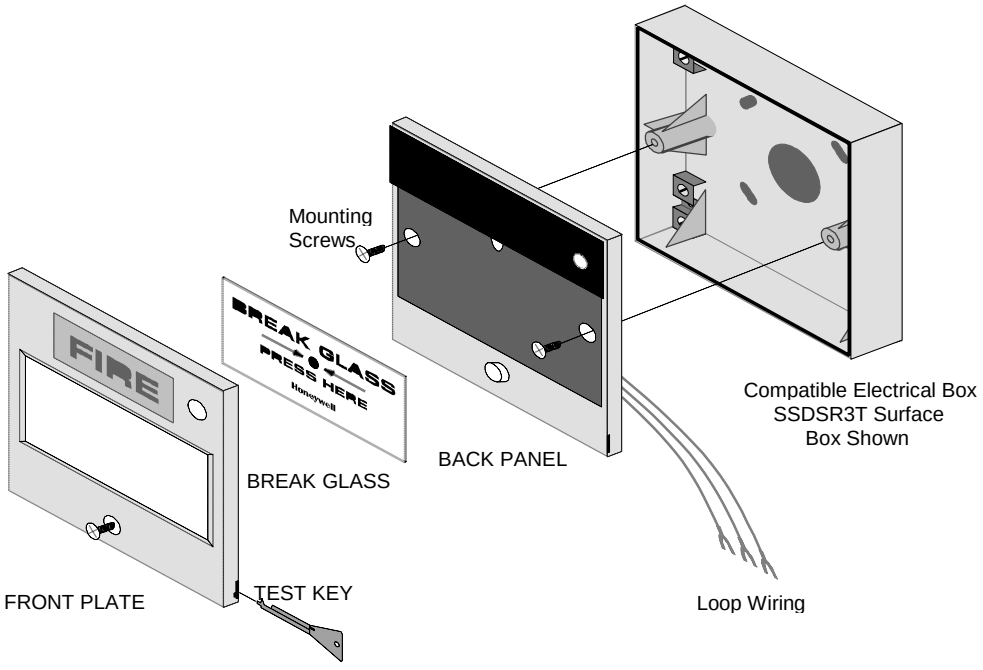

Fig.4:
Typical Assembly

SPECIFICATIONS

Models:
SIGI-271: Intelligent call point, English markings

Addressing Requirements:
uses 1 module address

Type Code:
Factory set

Operating Voltage:
15.2 to 19.95V dc (19V dc nominal)

Operating Current:
Standby: 250µA
Activated: 400µA

LED Operation:
On-board red LED: Flashes when in alarm
Glows steady when in “stand-alone” alarm mode

Compatibility:
Use with Signature Loop Controller

Construction and Finish:
Thermoplastic, red with black markings

Mounting:
Surface mounted on wall using SSDSR3T surface mounting box or flush mounted to compatible electrical boxes. However it is advised that the Terminal Tray (SSDETT-P) is used to effectively terminate field wiring to the callpoint.

Dimensions in Inches (Millimeters):
3-3/8 in. (86mm) Height
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25/32 in. (20mm) Depth (when flush mounted)
1-1/2 in. (38mm) Depth (when mounted on SSDSR3T)

Shipping Weight:
150 grams (89 x 90 x 35mm carton box)

Environmental Limits:
Operating Temperature: 32° to 120°F (0° to 49°C)
Storage Temperature: -4° to 140°F (-20° to 60°C)
Humidity: 0 to 93% rh

Accessories:

SSDSR3T	Surface Mounting Backbox
SSDETT-P	Terminal Tray
SSDE-G/10	English Break Glasses (Pack of 10)
KG-1/xx/<language>	Local language Break Glasses
	KG-1/25/<lang>: Pack of 25
	KG-1/50/<lang>: Pack of 50

for available language options see the list below

Available languages (Single and double) :

Arabic
Arabic/English
Afrikaans/English
Belgian
English/Chinese
Danish
Dutch
English/Dutch
English
English/French
German/French
German
Greek
Hebrew/English
Hungarian
English/Hungarian
Icelandic
Italian
Norwegian
Norwegian/English
Portuguese
Russian
English/Spanish
Swedish
Thai/English
English/Turkish
Welsh/English

Approvals:
CE Marked

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Comfort *from* Experience

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