SIL APPROVED DEVICES

Hochiki Europe (UK) Ltd has introduced a range of devices independently evaluated and certified to SIL2 (Safety Integrity Level) with respect to their primary function (Detection, Manual Call Point, Audio Visual etc) under IEC61508 Functional Safety of Electrical/Electronic/Programmable Electronic Safety-related Systems.

ALN-EN/SIL

A Photoelectric Smoke Sensor incorporating Hochiki's unique High Performance Chamber which allows the sensor threshold level to be increased, thereby improving the signal to noise ratio and reducing susceptibility to false alarms.

▸ Removable, High Performance Chamber
▸ Twin fire LEDs allow 360° viewing
▸ Locking mechanism (sensor to base)
▸ Variable sensitivity
▸ Electronically addressed
▸ Pulsing/non-pulsing controlled from panel*
▸ Addressed via TCH-B100 Hand Held Programmer
▸ Approved by LPCB & VdS

ACC-EN/SIL

A Multi Sensor incorporating a thermal element and a High Performance photoelectric smoke chamber. Has three modes controlled from the Control Panel, allowing either the optical or thermal element or both to be active in making the fire decision.

▸ User selectable modes
▸ Incorporates Optical & Heat elements
▸ Removable, High Performance Chamber
▸ Twin fire LEDs allow 360° viewing
▸ Pulsing/non-pulsing controlled from panel*
▸ Variable sensitivity
▸ Electronically addressed
▸ Addressed via TCH-B100 Hand Held Programmer
▸ Approved by LPCB & VdS

ATJ-EN/SIL

A Multi-Heat Sensor incorporating a variable Fixed Temperature heat element and Rate Of Rise heat element, both controlled from the Control Panel allowing either thermal element or both elements simultaneously to be active in making the fire decision.

▸ User selectable modes
▸ Incorporates Fixed Temperature and Rate Of Rise Heat elements
▸ Twin fire LEDs allow 360° viewing
▸ Pulsing/non-pulsing controlled from panel*
▸ Electronically addressed
▸ Addressed via TCH-B100 Hand Held Programmer
▸ LPCB & VdS approved to Classes A, B & C

ALN-E(WHT)/SIL

A Photoelectric Smoke Sensor incorporating Hochiki's unique High Performance Chamber which allows the sensor threshold level to be increased, thereby improving the signal to noise ratio and reducing susceptibility to false alarms.

▸ Removable, High Performance Chamber
▸ Twin fire LEDs allow 360° viewing
▸ Locking mechanism (sensor to base)
▸ Variable sensitivity
▸ Electronically addressed
▸ Pulsing/non-pulsing controlled from panel*
▸ Addressed via TCH-B100 Hand Held Programmer
▸ Approved by LPCB & VdS

ACC-E(WHT)/SIL

A Multi Sensor incorporating a thermal element and a High Performance photoelectric smoke chamber. Has three modes controlled from the Control Panel, allowing either the optical or thermal element or both to be active in making the fire decision.

▸ User selectable modes
▸ Incorporates Optical & Heat elements
▸ Removable, High Performance Chamber
▸ Twin fire LEDs allow 360° viewing
▸ Pulsing/non-pulsing controlled from panel*
▸ Variable sensitivity
▸ Electronically addressed
▸ Addressed via TCH-B100 Hand Held Programmer
▸ Approved by LPCB & VdS

ATJ-E(WHT)/SIL

A Multi-Heat Sensor incorporating a variable Fixed Temperature heat element and Rate Of Rise heat element, both controlled from the Control Panel allowing either thermal element or both elements simultaneously to be active in making the fire decision.

▸ User selectable modes
▸ Incorporates Fixed Temperature and Rate Of Rise Heat elements
▸ Twin fire LEDs allow 360º viewing
▸ Pulsing/non-pulsing controlled from panel*
▸ Electronically addressed
▸ Addressed via TCH-B100 Hand Held Programmer
▸ LPCB & VdS approved to Classes A, B & C

HCP-E(SCI)/SIL

A Manual Call Point Isolator fully compatible with Hochiki's ESP analogue addressable protocol and featuring an integral short-circuit isolator (SCI). Features a bi-coloured LED to indicate either fire (red) or short-circuit (amber). Also features plug-in wiring terminals for easy installation.

▸ Fast response
▸ Integral short-circuit isolator
▸ Bi-colour status LED
▸ Non-frangible element fitted as standard (conforms to EN54)
▸ Addressed with TCH-B100 Hand Held Programmer & PL-3
▸ Surface or flush mounting
▸ LPCB Approved to EN54

Note - requires SR MOUNTING BOX if surface mounted (sold separately) (see page 10 of Product Range Guide)

HCP-W(SCI)/SIL

An IP67 Weatherproof Manual Call Point Isolator fully compatible with Hochiki's ESP analogue addressable protocol and featuring an integral short-circuit isolator (SCI). Features a bi-coloured LED to indicate either fire (red) or short-circuit (amber). Also features plug-in wiring terminals for easy installation.

▸ Fast response
▸ Integral short-circuit isolator
▸ Bi-colour status LED
▸ Non-frangible element fitted as standard (conforms to EN54)
▸ Addressed with TCH-B100 Hand Held Programmer & PL-3
▸ Surface mounting
▸ LPCB Approved to EN54
▸ IP67 rated

YBN-R/3(SCI)/SIL

A sensor mounting base featuring an integral short-circuit isolator which will detect and isolate short-circuits on the loop. When a short-circuit is detected during power up the unit will drop the power to the rest of the loop.

▸ Features integral SCI
▸ Easy to fit
▸ Slim profile
▸ Matches standard base colours
▸ Compatible with the ESP range of sensors

YBO-BS/SIL

An Addressable Loop-Powered Base Sounder providing 13 volume levels and 51 tones with a maximum output of up to 98 dB(A) (±2 dB(A)) with low current consumption. The unit is designed to fit either the YBN-R/3 or the YBO-R/SCI Bases.

▸ Loop Powered
▸ Single Loop Address - addressed automatically by Control Panel or via the TCH-B100 Hand Held Programmer
▸ 50 ~ 98 dB(A) (±2 dB(A)) output at 1m
▸ Fits Hochiki Standard or Isolator Base and supports ESP Sensors, Beacons and Remote Indicator
▸ 51 User-Selectable Tones (all tones EN54-3 compatible)
▸ Approved by LPCB & VdS

YBO-BSB2/SIL

PENDING APPROVAL

An Addressable Loop-Powered Base Sounder Beacon providing 13 volume levels and 51 tones with a maximum output of up to 98 dB(A) (±2 dB(A)) with low current consumption. The unit is designed to fit either the YBN-R/3 or the YBO-R/SCI Bases.

▸ Loop Powered
▸ Single Loop Address, addressed by either Control Panel or TCH-B100
▸ 50 ~ 98 dB(A) (±2 dB(A)) output at 1m
▸ Fits Hochiki Standard or Isolator Base and supports ESP Sensors, Beacons and Remote Indicator
▸ 51 User-Selectable Tones (all tones EN54-3 compatible)
▸ Beacon and Sounder can be controlled independently*
▸ Approved to EN54-23: 2010 - Category 'O'

*Please ensure control panel compatibility

CHQ-WS2/SIL

An Addressable Loop-Powered Wall Sounder providing 8 volume levels and 51 tones with a maximum output of up to 102 dB(A) (±2 dB(A)) with low current consumption. Special bases available: YBO-R/3(RED), YBO-R/SCI(RED), YBO-R/3(WHT) and YBO-R/SCI(WHT-SNDR).

▸ Loop Powered
▸ Single Loop Address - addressed via the TCH-B100 Hand Held Programmer
▸ Variable Sound Output 90 ~ 102 dB(A) (±2 dB(A)) output at 1 metre
▸ Weatherproof Kit available
▸ 51 User-Selectable Tones (all tones EN54-3 compatible)
▸ Auto-shutdown Mode available*
▸ Approved by LPCB and VdS

CHQ-WSB2/SIL

PENDING APPROVAL

An Addressable Loop-Powered Wall Sounder Beacon as per the CHQ-WS2 but additionally featuring an integral beacon within the horn which utilises high intensity LED technology. Special bases available: YBO-R/3(RED), YBO-R/SCI(RED), YBO-R/3(WHT) and YBO-R/SCI(WHT-SNDR).

As per CHQ-WS2 plus:
▸ Variable flash frequency*
▸ High Intensity LED technology
▸ Independent control of Sounder and Beacon*
▸ Auto-shutdown Mode available - can be set independently for sounder or beacon*
▸ Addressed via TCH-B100 Hand Held Programmer
▸ Approved to EN54-23: 2010 - Category 'O'

Please ensure control panel compatibility

CHQ-DZM(IS)/SIL

PENDING APPROVAL

Lid Colours
Transparent Black
Opaque White

A Dual Zone Module which is fully compatible with Hochiki's ESP analogue addressable protocol and I.S. equipment. The module will allow connection of up to 40 Hochiki I.S. conventional detectors (20 per zone) through a Galvanic isolator or Zener barrier, which are then fully monitored for open and short circuit. Also available as a DIN Rail mountable version. Both models feature an integral short-circuit isolator.

▸ Single loop address
▸ Supports two independent zones of Hochiki I.S. Conventional Detectors
▸ Both zones fully monitored for short/open-circuit
▸ Requires an auxiliary 24 Vdc supply
▸ DIN rail version available
▸ Both models feature an integral short-circuit isolator
▸ Both models approved by LPCB
▸ Installed in safe area

SLR-E-IS/SIL

PENDING APPROVAL

A Conventional I.S. Photoelectric Smoke Detector designed for use in hazardous areas. Incorporates a remote indicator output and a removable chamber for easy maintenance.

▸ Removable, High Performance chamber
▸ Twin fire LEDs allow 360º viewing
▸ Supported by a range of barriers
▸ Remote indicator output
▸ ATEX certification to: *II 1G EEx ia IIC T5 (Tamb=55ºC)*
▸ Suitable for installation in areas at Category 1 (inc all lower categories)
▸ Approved by LPCB, GL and IECEx

DCD-1E-IS/SIL

PENDING APPROVAL

A Conventional I.S. Rate of Rise Heat Detector designed for use in hazardous areas. Incorporates a remote indicator output and a 60ºC fixed temperature element.

▸ Twin fire LEDs allow 360º viewing
▸ Electronics free mounting base
▸ Remote indicator output
▸ ATEX certification to: *II 1G EEx ia IIC T5 (Tamb=55ºC)*
▸ Suitable for installation in areas at Category 1 (inc all lower categories)
▸ Approved by LPCB, GL and IECEx

CCP-E-IS/SIL

PENDING APPROVAL

A Conventional Manual Call Point designed for use in hazardous areas and based upon the industry standard KAC world series housing.

▸ Supports either a 'Frangible Glass' element or a 'Non Frangible Plastic' element
▸ Terminals can accommodate up to a $2.5mm^2$ solid conductor
▸ Approved to EN54 Part 12
▸ Rugged design
▸ ATEX Classification to: *II 1G EEx ia IIC T4*

CCP-W-IS/SIL

PENDING APPROVAL

An IP67 Conventional Weatherproof Call Point which can be used externally.

- ▶ Approved to EN54-11:2001
- ▶ Supplied with back-box as standard
- ▶ Terminals can accommodate up to a 2.5mm² solid conductor
- ▶ Other colours available on request
- ▶ Ingress Protection rated to IP67
- ▶ Approved by LPCB

CHQ-PCM(SCI)/SIL

PENDING APPROVAL

Lid Colours

Transparent Black

Opaque White

A Plant Control Module with four independent change-over relay outputs, with N/O and N/C volt free contacts and four inputs. These outputs can be driven separately by the fire alarm control panel and can be used for the control of devices such as dampers or for plant and equipment shutdown.

- ▶ Single loop address
- ▶ Loop powered
- ▶ DIL switch addressable
- ▶ 4 change-over relay outputs
- ▶ 4 independent inputs for monitoring of volt-free contacts
- ▶ Each input can be configured to monitor either Normally Open or Normally Closed contacts
- ▶ DIN Rail version available
- ▶ Both models feature an integral short-circuit isolator
- ▶ Both models approved by LPCB

CHQ-ISM/SIL

PENDING APPROVAL

Lid Colours

Transparent Black

Opaque White

This Sounder Control Module interfaces between the Hochiki Analogue system via a CHQ-DSC or conventional sounder O/P's and the intrinsically safe sounder/beacon units via an intrinsically safe barrier. The module provides line monitoring for open or short circuits on the wiring connected to both the safe and hazardous areas.

- ▶ Provides dual sounder circuits
- ▶ Provides fault-monitored input
- ▶ Interfaces between loop and I.S. sounders/beacons
- ▶ Requires I.S. barrier
- ▶ Allows 1 I.S. Sounder or Beacon to be connected.
- ▶ Fully monitored for short-circuits
- ▶ Requires 24 vdc external power supply
- ▶ Also available as a DIN module
- ▶ Installed in safe area

HOCHIKI