

HOCHIKI YBO-R/SCI & YBO-R/SCIM SHORT CIRCUIT ISOLATOR BASES & CHQ-SCI/DIN SHORT CIRCUIT ISOLATOR MODULE



INSTALLATION INSTRUCTIONS

General Description

These devices detect and isolate short-circuits on the loop. When a short-circuit is detected during power up these isolators will illuminate their integral LED (yellow) and drop the power to the rest of the loop.

YBO-R/SCI & YBO-R/SCIM Isolator Base

The YBO-R/SCI (and the marine-approved equivalent YBO-R/SCIM) is a short-circuit isolator combined in a base compatible with the ESP range of sensors (see compatibility chart below). The Isolator can also be used as a stand alone unit with the addition of a simple clip on cover (SI/CAP), in either configuration the unit does not require a loop address. A remote fire LED facility is provided when a sensor is attached to the base.

Note:- If a sensor is fitted this will still be powered when the device is isolating (yellow LED illuminated).

CHQ-SCI/DIN Isolator Module

The CHQ-SCI/DIN is a short-circuit isolator housed in a compact DIN rail module housing. This module should be housed within a suitable protective enclosure such as the DX070 Box.

Specifications

	Base Isolator	DIN Module Isolator
Ordering codes	YBO-R/SCI * ¹ YBO-R/SCIM (Marine-Approved)	CHQ-SCI/DIN
Protocols	ESP/HRE [#]	
Operating Voltage	19-41 Vdc (24 Vdc nominal)	
Standby current	60 µA	
Current drawn by isolator during fault condition	< 10 mA	
Maximum current consumption from remote LED	N/A	10 mA (limited by sensor)
Maximum continuous current	1 A	
Maximum quantity per loop	127* ²	
LED colour	Yellow	
Ambient temperature range	-10 °C to +50 °C	
Relative humidity	10% to 95% RH (at 40°C)	
Colour and case material	Ivory or White ABS	Green ABS
Fixing centres	48 mm through to 74 mm	N/A
Maximum wire thickness	2.5 mm ² /terminal	
Weight	92g	103g
Optional cover for stand alone use	SI/CAP	N/A

[#]The YBO-R/SCI can be used on the HRE protocol as a replacement for the SCI/2a, but as a **stand alone isolator only**, in other words, with no sensor fitted.

*¹ Fire alarm control panel compatibility is required for this product.

*² Check with Fire alarm control panel manufacturer for maximum loop quantities

Compatibility

The YBO-R/SCI base isolator has been designed to work with the sensors listed below. All sensors are compatible with Hochiki ESP (Enhanced System Protocol).

Sensor Type	Ordering Code
Photoelectric sensor	ALG-E, ALG-EN, ALK-E (and all variants)
Ionisation sensor	AIE-E (and all variants)
Temperature sensor	ATG-E, ACB-E, ACB-EW (and all variants)
Multi-Sensor	ACA-E

Precautions

- ❑ Ensure that both devices are installed in accordance with local standards or regulations.
- ❑ Only install in suitable environments, the following should be avoided : -
- ❑ Excessive ambient temperature.
- ❑ Where excessive condensation or moisture is present.
- ❑ Hazardous areas.
- ❑ Do not use a high voltage tester on these devices.
- ❑ Ensure that the YBO-R/SCI & YBO-R/SCIM base isolators are securely fixed to the ceiling or other suitable surface.
- ❑ Ensure that the CHQ-SCI/DIN module isolator is connected to securely fitted DIN rail and housed within a suitable protective enclosure.
- ❑ Ensure that the terminals on both devices are securely fastened.
- ❑ When fitting the YBO-R/SCI & YBO-R/SCIM isolator bases, for proper wiring supervision ensure that the cables are routed through the base terminals and not spurred off a main wiring route.
- ❑ Ensure the YBO-R/SCI & YBO-R/SCIM base isolators are fitted with either a sensor or a cover (on HRE systems only cover may be fitted)
- ❑ Ensure yellow isolating LED on either device is easily visible.

Wiring

The wiring of the YBO-R/SCI & YBO-R/SCIM short circuit isolator bases should be made as shown right:

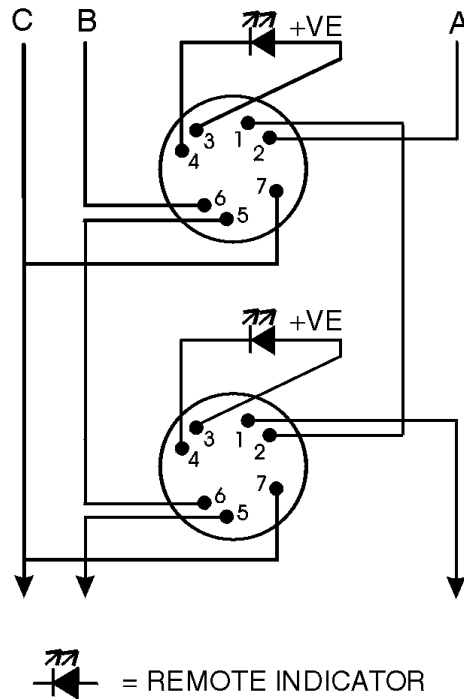
A: Loop (+)

B: Loop (-)

C: Cable Screen

Note:- The Remote Indicator will only indicate a fire condition, but not when the base is isolating.

The wiring for the CHQ-SCI/DIN should follow the wiring indications on the product side label.



	YBO-R/SCI	0832-CPD-0963	09	EN54-17 Short Circuit Isolators
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Hochiki Europe (UK) Ltd
 Grosvenor Road, Gillingham Business Park,
 Gillingham, Kent, ME8 0SA, England Telephone:
 +44(0)1634 260133 Facsimile: +44(0)1634 260132
 Email: sales@hochikieurope.com
 Web: www.hochikieurope.com

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Protocol specified in TI/006