HOCHIKI YBN-R/3(SCI)-OEM SHORT-CIRCUIT ISOLATOR ADAPTOR INSTALLATION INSTRUCTIONS

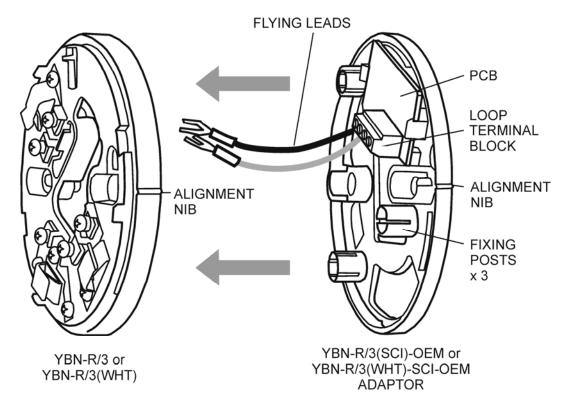
General Description

The YBN-R/3(SCI)-OEM is an adaptor featuring an integral short-circuit isolator, which has been designed to be fitted to a standard sensor mounting base (YBN-R/3) to convert it into a short-circuit isolator base. This combined unit will then detect and isolate short-circuits on the loop. When a short-circuit is detected the combined unit will drop the power to the rest of the loop.

The combined unit is compatible with the ESP range of sensors (see compatibility chart below) and does not require a loop address. A remote fire LED facility is provided when a sensor is attached to the combined unit.

Note:- A fitted sensor will still be powered when this device is isolating.

Fitting to a YBN-R/3 Standard Base



Fit the adaptor to the underside of the YBN-R/3 standard mounting base as shown above, ensuring that the alignment nibs on both units are aligned. The three fixing posts on the adaptor provide a snug fit to the moulded posts on the underside of the YBN-R/3. Ensure that the flying leads on the adaptor are passed through the hole in the base of the YBN-R/3.

Connect the two flying leads to the appropriate wiring terminals on the YBN-R/3. These are:

BLACK (Loop -ve) to terminal 6 and RED (Loop +ve) to terminal 1.

Compatibility

The combined unit as an isolator base 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 (smoke) sensor	ALG-E, ALG-EN, ALK-E, ALN-E (and all variants)
Ionisation (smoke) sensor	AIE-E (and all variants)
Temperature (heat) sensor	ATG-E, ACB-E, ATJ-E (and all variants)
Multi (smoke and/or heat) sensor	ACA-E, ACC-E (and all variants)

Specifications

Ordering codes	YBN-R/3(SCI)-OEM (ivory)
	YBN-R/3(WHT)-SCI-OEM (white)
Protocol	ESP
Operating Voltage	19 - 41 V dc (24 V dc nominal)
Standby current	60 μΑ
Current drawn by isolator during fault condition	< 4 mA
Maximum current consumption from remote LED	10 mA (limited by attached sensor)
Maximum continuous current	1 A
Maximum quantity per loop	127*1
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
Fixing centres	48 mm through to 74 mm
Maximum wire thickness	2.5 mm²/terminal
Weight	82 g

^{*1} Check with Fire alarm control panel manufacturer for maximum loop quantities

See AP0127 for short-circuit isolator specifications

Precautions

- Ensure that this device is 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 combined unit is securely fixed to the ceiling or other suitable surface.
- ☐ Ensure that the terminals on the combined unit are securely fastened.
- □ When fitting the combined unit as an isolator base, for proper wiring supervision, ensure that the cables are routed through the base terminals and not spurred off a main wiring route.

Wiring

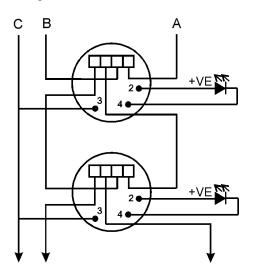
The wiring of the combined unit should be made as shown right:

A: Loop (+)

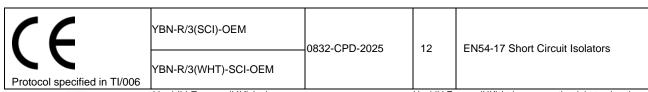
B: Loop (-)

C: Cable Screen

A separate self-adhesive label is supplied and should be stuck over the existing YBN-R/3 label to indicate the base is now a short-circuit isolator. This replacement label also features loop wiring indications for the loop terminal block.









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