

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



General Description

The YBN-R/3(SCI) is 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.

The YBN-R/3(SCI) is compatible with the ESP range of sensors (see compatibility chart below). The unit does not require a loop address. A remote fire LED facility is provided when a sensor is attached to the base.

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

Specifications

Ordering code	YBN-R/3(SCI)
Protocol	ESP
Operating Voltage	17 - 41 V dc (24 V dc nominal)
Standby current	60 μ A
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 mm ² /terminal
Weight	79 g

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

See AP0127 for short-circuit isolator specifications

Compatibility

The YBN-R/3(SCI) 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)

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 YBN-R/3(SCI) base isolator is securely fixed to the ceiling or other suitable surface.
- Ensure that the terminals on the unit are securely fastened.
- When fitting the YBN-R/3(SCI) isolator base, for proper wiring supervision, ensure that the cables are routed through the base terminals and not spurred off a main wiring route.

