HS60V2   **HS80V2**

BROOKS
Fire Products & Solutions

Roof Space Residential Heat Detectors HS60V2 / HS80V2

Description

Standard Smoke or Heat Alarms are not suitable in residential roof space applications where fires may occur. Brooks has developed a solution to protect residential roof space when a residential fire panel or wireless roof kit are used. The heat detectors utilise a bi-metallic heat switches used in NZ compliant heat detectors NZH60 and NZH80 to detect fire in residential roof space using RFP V2 series, RFS1 V2 and wireless roof space kit.

When the temperature in the roof space reaches the set point of the bi-metallic heat switch, the contact of the switch will close and connects approximately 12V (with a diode forward voltage drop) to the interconnect in the residential panel which activates all Smoke or Heat Alarms within the specified zone.

HS60V2 or HS80V2 are also used in conjunction with the wireless input module / heat detector EIB408RFH. When the temperature in the roof space reaches the set point of the switch, the contact will close and apply 1.65K resistor with a series diode to the input of EIB408RFH, this activates the input which activates all the wireless Alarms that have been house coded to EIB408RFH,

Features

- Minimum current draw from residential panels and no current from EIB408RFH, refer to specifications.
- Up to 10 of HS60V2 or HS80V2 can be connected to a zone in residential panels.
- Minimise false alarms.
- Suitable for harsh environment e.g. roof spaces, garages, etc.
- Compatible with RFP V2 series, RFS1 V2 and EIB408RFH
- Base size 73mm diameter
- Built-in LED for alarm indication
- Support Remote Indicator Light (RIL), with selectable "Latching" and "Non-Latching" mode

Specifications – RFP V2 / RFS1 V2

The specifications shown in the table below is for **RFP V2 or RFS1 V2** residential panels

Function	HS60V2	HS80V2
Temperature	60°C ±5°C	80°C ±5°C
Current Consumption (@12.8V) Quiescent Alarm (without RIL) Alarm (with RIL)	0.1 uA 6.7 mA 14 mA	0.1 uA 6.7 mA 14 mA
Nominal Voltage	12 V	12 V
Maximum no. of units per zone	10	10
Dot Colour	Blue	Red

Specifications – EIB408RFH

The specifications shown in the table below is for the wireless input heat detector **EIB408RFH**

Function	HS60V2	HS80V2
Temperature	60°C ±5°C	80°C ±5°C
Current Consumption (@12.8V)	0 mA	0 mA
Maximum cable length from EIB408RFH to the last heat detector	20 Metre	20 Metre
Maximum no. of (depending on cable length)	10	10
Dot Colour	Blue	Red

Installation to residential panels

1. Select an appropriate mounting location in the roof space, do not mount the detector yet.
2. Connect zone wiring +12V, 0V and Interconnect to the first set of terminals on SUB1034 / SUB1035 as shown in the drawing in Figure 1 below.
3. If more than one heat detector is to be included, connect three wire cable to the second set of terminals and run the wires to the second heat detector, continue adding if required.
4. If the heat detector is the last device in a zone circuit, connect the EOL device across the second set of terminals. If a Smoke Alarm is the last device in a zone, EOL device or DIP switch setting can be used.
5. If RIL is required, connect the RIL to the allocated RIL terminals and set the DIP switch either for latching or non-latching.
6. Once all cables have been terminated, screw the plastic mould into the appropriate location in the roof space, insert the provided plugs to cover screw holes.
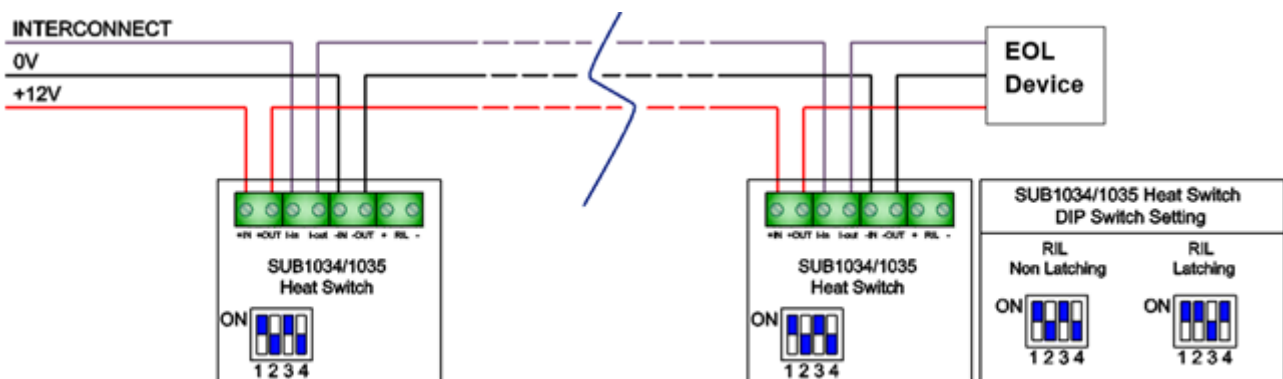

Figure 1 Connection of heat detectors to RFP V2 series or RFS1 V2

For more details, refer to the technical manual of RFP V2 series and RFS1 V2 residential panels

Installation to Wireless Alarms

When roof space detectors are required to activate wireless Smoke Alarms, HS60V2 or HS80V2 are to be connected to the input module / heat detector EIB408RFH as shown in Figure 2 below. The heat detectors will be connected in parallel so when the temperature reaches the set point in any unit, the switch contact will close, EIB408RFH will be activated and the wireless Smoke Alarms will sound.

<table>
<tr><td></td><td></td><td></td><td rowspan="2">Title

Roof Space Residential Heat Detectors
HS60V2 / HS80V2</td><td colspan="2">Technical Datasheet</td><td colspan="2">BROOKS
Fire Products & Solutions</td></tr>
<tr><td></td><td></td><td></td><td>Created</td><td>Checked</td><td>TDS No.</td><td>Rev</td></tr>
<tr><td>22/10/19</td><td>1</td><td>Update & add table</td><td rowspan="2">Page 2 of 3</td><td>B.C.</td><td>A. S.</td><td rowspan="2">TDS066</td><td rowspan="2">1</td></tr>
<tr><td>7/8/2019</td><td>0</td><td>Original Issue</td><td>7/8/2019</td><td>7/8/2019</td></tr>
<tr><td>Date</td><td>Rev</td><td>Description</td><td></td><td></td><td></td></tr>
</table>

Note: House coding EIB408RFH and wireless Smoke / Heat Alarms or any other RadioLINK devices must be carried out. Refer to EIB408RFH leaflet.
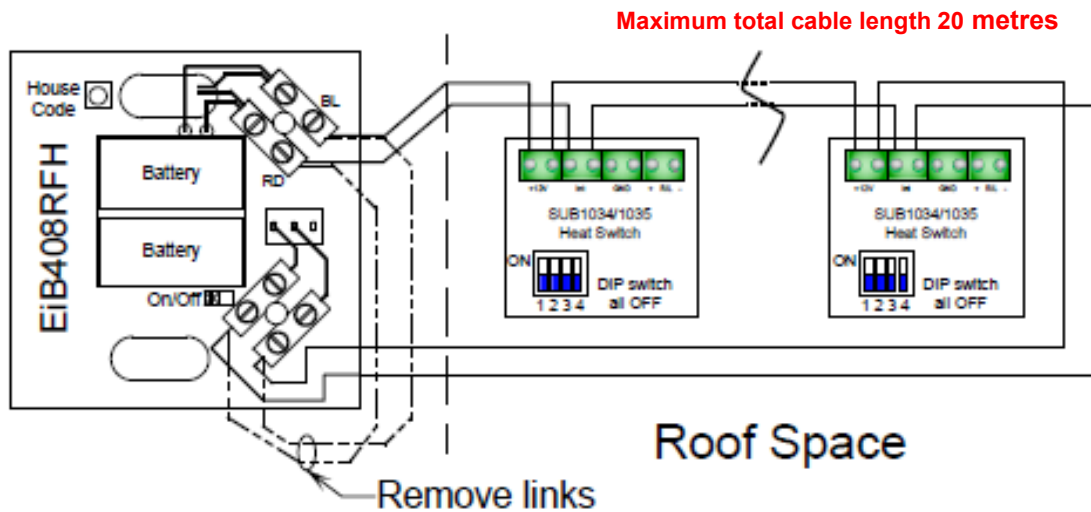
Maximum total cable length 20 metres

Figure 2 Connection of heat detectors to wireless EIB408RFH

DIP Switch Setting

The following table describes the different option of the 4-way DIP switch setting

DIP Switch Settings				
	S1	S2	S3	S4
EIB408RFH	OFF	OFF	OFF	OFF
RIL Latching	ON	ON	OFF	ON
RIL Non-Latching	ON	OFF	ON	OFF

Notes

- When working with the wireless switched Input module / heat detector EIB408RFH, the unit is in passive mode, hence the on-board LED and the RIL output will **NOT** work.

- When working with RFP V2 series and RFS1 V2, if a zone is in alarm but the alarm was generated by the other Devices / Alarms on the same zone, the on-board LED and the RIL output will NOT turn on. They can be triggered only by their own heat switch element.

- The "Latching" or "Non-Latching" selectable DIP switch only have effect on the RIL output. The on-board LED is always "Non-Latching".

(Due to the continual development Brooks Australia reserves the rights to change the product specifications)

Date	Rev	Description				
			Title	**Technical Datasheet**		**BROOKS** Fire Products & Solutions
			Roof Space Residential Heat Detectors HS60V2 / HS80V2			
22/10/19	1	Update & add table		**Created**	**Checked**	**TDS No.** / **Rev**
7/8/2019	0	Original Issue		B.C.	A. S.	TDS066 / 1
Date	Rev	Description	Page 3 of 3	7/8/2019	7/8/2019	