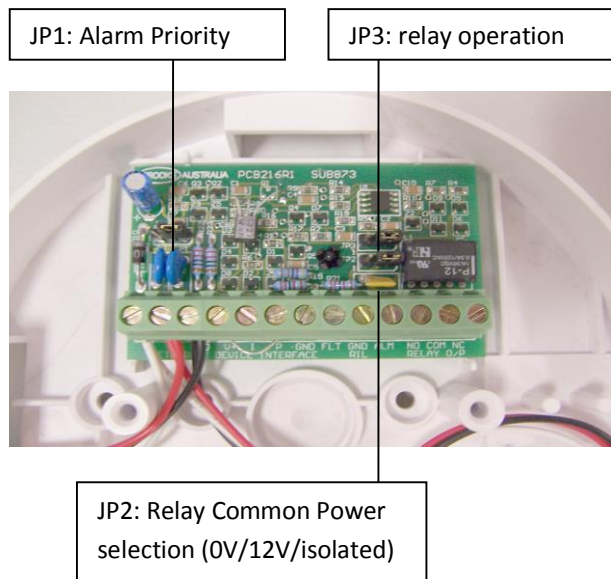




BARFS-1 Optional Field Devices

Input / Output Board SUB873



The input/output module is a zone device which interfaces BARFS-1 to external equipment. The module is fitted (clip in) in x-series rectangular plastic base.

The input is a clean contact input which can be used to interface manual call point or sprinkler flow switch to BARFS-1.

The output can be either a changeover alarm relay contact or 12V / 0V switched alarm output via the COM terminal depending on the position of jumper link JP2. The alarm contacts used for general control or monitoring purposes (contact current rating is 1A) while the 12V alarm output (fused to 1A) can be used to drive strobes or vibration pads.

The board provides terminals for RIL output, this indication can be configured either for remote alarm or for remote fault indication or both.

Specifications

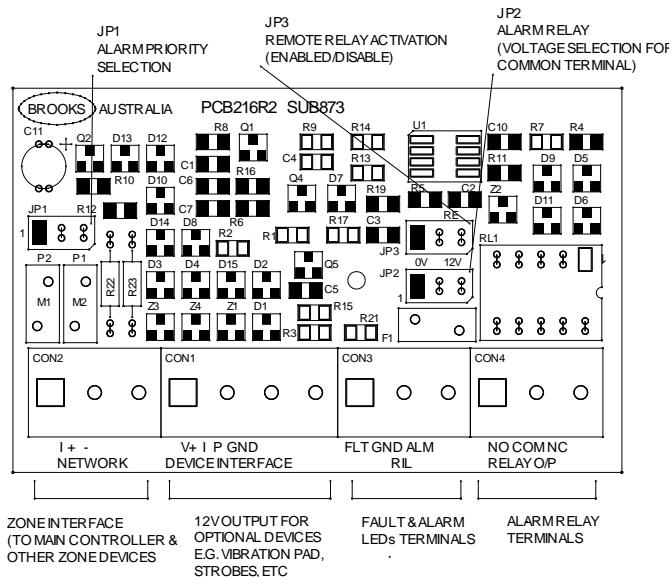
Product Code	Description	Quiescent@12V	Alarm@12V
SUB873	Generic Input / Output Board	8.1mA	25mA
EIB207V	Vibration Pad for Hearing Impaired	8.1mA	100mA
EIB209IO	Generic I/O Module for Sprinkler Flow Switch or MCP	8.1mA	25mA
EIB208ST1	High Intensity Strobe Light TK86	8.1mA	700mA
EIB208SR2	Medium Intensity Strobe Light TK36	8.1mA	250mA

			Title	Technical Datasheet			
			RFS1 Optional Field Devices	Created	Checked	TDS No.	Rev
			Model EIB207V, EIB208ST1 & EIB208ST2	A.S.	C.A.	TDS004	1
6/4/16	1	Minor update	Page 1 of 4		12/1/2010		
12/1/10	0	Original Issue					
Date	Rev	Description					

Jumper Setting

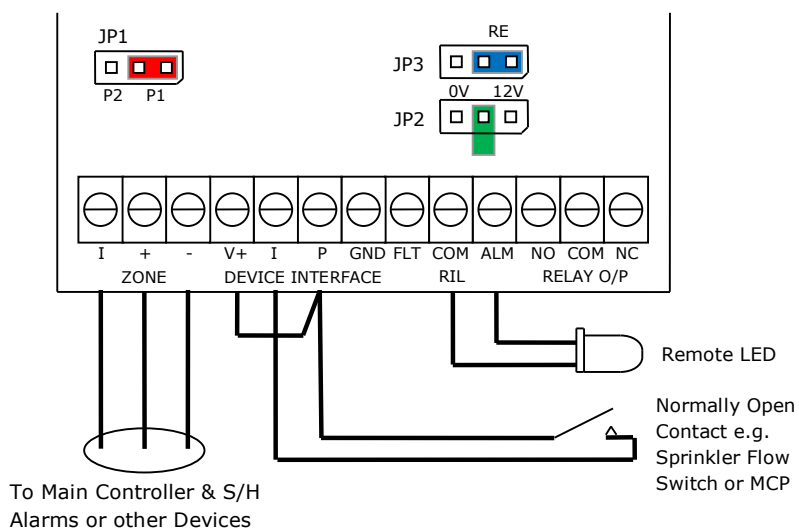
Jumper	Function	Description	Jumper Position
JP1	Alarm Priority	P1 (high priority)	Jumper across pin 2 & 3 or not fitted
		P2 (common priority)	Jumper across pin 1 & 2
JP2	Alarm Relay	Voltage free contact	Jumper not fitted
		Com=0V (switches 0V to NO terminal)	Jumper across pin 1 & 2
		Com=12V (switches 12V to NO terminal)	Jumper across pin 2 & 3
JP3	Alarm Relay & RIL Trigger	Standalone, activated of smoke or heat alarm	Jumper across pin 1 & 2 or not fitted
		Common, activated of Common Interconnect Bus	Jumper across pin 2 & 3


PCB Layout



Generic Input / Output EIB209IO

The following diagram shows how the module is used as an input module for normally open contact such as manual call point or sprinkler flow switch. The 12V output application is shown in EIB207V, EIB208ST1 and EIB208ST2.



			Title	Technical Datasheet			
			RFS1 Optional Field Devices Model EIB207V, EIB208ST1 & EIB208ST2	Created	Checked	TDS No.	Rev
6/4/16	1	Minor update		A.S.	C.A.	TDS004	1
12/1/10	0	Original Issue	Page 2 of 4				
Date	Rev	Description			12/1/2010	12/1/2010	

Vibration Pad EIB207V

Smoke and heat alarms may not provide an early warning for hearing impaired. Brooks has added additional equipment to provide warning for the hearing impaired occupants, the Vibration pad EIB207V is a device that can be placed under the pillow to provide the warning required for hearing impaired.

Note: the vibration pad does not detect fire, it responds only to a fire detected by smoke or heat alarm which compromises a part of BARFS-1 zone detection circuit.

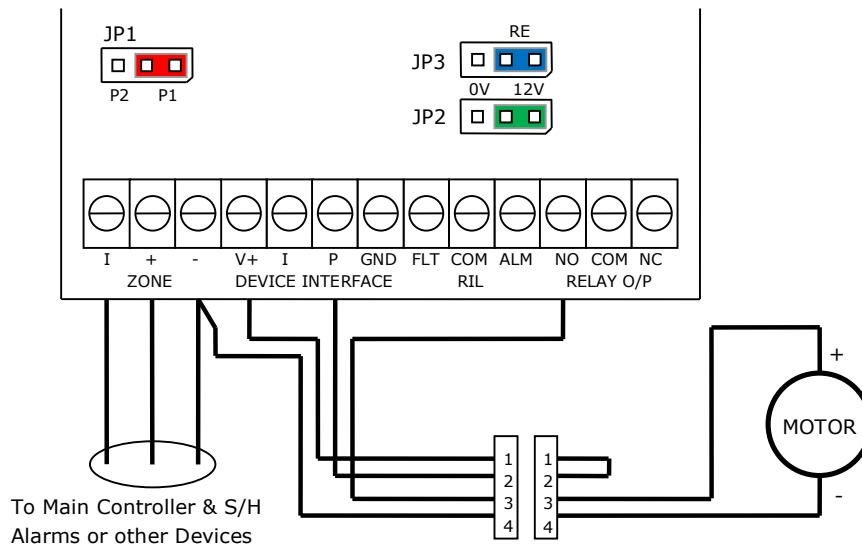



EIB207V
Control Box



EIB207V
Vibration Pad

The diagram shown used for wiring a vibration pad to BARFS-1, the jumper links must be fitted as shown in the drawing below. The jumper across pin 1 & 2 in the vibration pad plug is used to generate a fault when the plug is not fitted in the socket. The relay is configured to switch +12V via the NO contact (0V is required from the zone -ve)



			Title		Technical Datasheet			
			RFS1 Optional Field Devices Model EIB207V, EIB208ST1 & EIB208ST2		Created	Checked	TDS No.	Rev
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Date	Rev	Description	Page 3 of 4					

Strobe Light EIB208ST1 & EIB208ST2

Two optional strobe lights are available for the hearing impaired early warning.

EIB208ST1: used inside the sleeping area and provides a high intensity flashing light 4.2J to help the sleeping hearing impaired occupant to wake up.

EIB208ST2: less intensity flashing light used in the living area to warn the hearing impaired occupants.

The strobe lights are not only used for hearing impaired but it can be used in different applications as a visual warning of fire alarms.

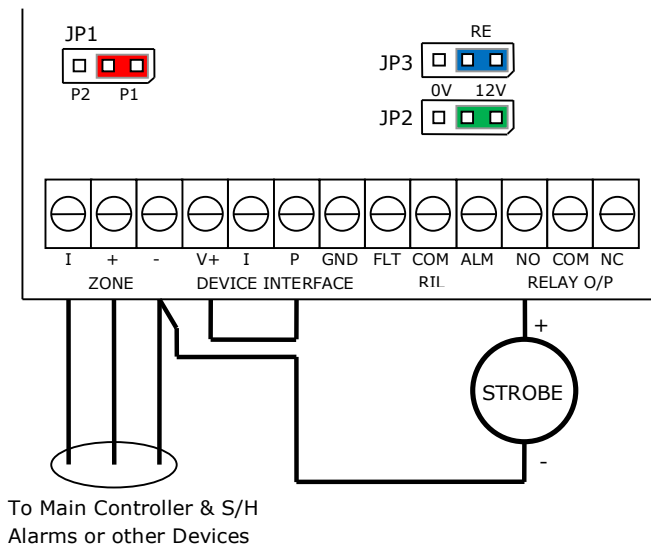



EIB208ST1



EIB208ST2

The wiring diagram shown below is used for connecting one of the two types of flashing lights to the generic input / output board SUB873.



			Title		Technical Datasheet			
			RFS1 Optional Field Devices Model EIB207V, EIB208ST1 & EIB208ST2		Created	Checked	TDS No.	Rev
6/4/16	1	Minor update			A.S.	C.A.	TDS004	1
12/1/10	0	Original Issue			12/1/2010	12/1/2010		
Date	Rev	Description	Page 4 of 4					