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SPECIALIST DISTRIBUTORS OF FIRE PROTECTION PRODUCTS

Quality Endorsed Company
AS N2 ISO 9002
Lic No. QEC 1411

SCIENTIFIC SERVICES LABORATORY

Input Module for Bell control: CHQ-B

CHQ-B is the output Module for Bell control for the Hochiki newly developed GTP transmission protocol.

Features

Dual-Circuit Sounder
- Easy installation
- Simple and reliable addressing by means of 8-bit DIL switches
- 2 independent fully monitored fused sounder output
- 1 normally open monitored input (interrupt level 3)
- Uses only one loop address
- Sounder outputs can be driven continuously or synchronised pulse sounder drive
- Non-polarized S,SC input
- Full monitoring of local 24V supply for mains failure and low power supply
- Loop powered with low current consumption utilising unique ‘Low Power Mode’
- 5 Status LED for indication of communication polling, output fault and status

Operation

The sounder outputs are independently fused and be separately driven continuously or pulsed under full synchronisation of the fire alarm panel with other sounders on the same loop. Open and short circuit monitoring functions for two sounder outputs can be enabled or disabled via a simple DIL switch. The external 24V supply is monitored and if the voltage drops below the threshold then a fault signal is sent back to the fire alarm panel. A second DIL switch allows the unit to be addressed between 1 and 127, and a green LED flashes when the unit is polled by the fire alarm panel. A single input is provided with open and short circuit monitoring which can be enabled or disabled by the DIL switch. The unit reads the input once per second for interrupt conditions to which the fire alarm control panel then responds quickly if any input change occurs. Connection to loop and field wiring is via simple screw terminals for easy installation.

Applications

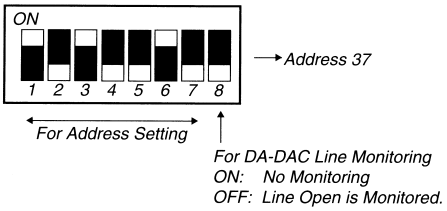
The Dual Circuit Sounder module has been designed to provide two sounder outputs with full fault monitoring. The monitored input can be used for local power supply fault monitoring or as a general purpose input. The input and both sounder outputs only need the allocation of one loop address.

Specifications

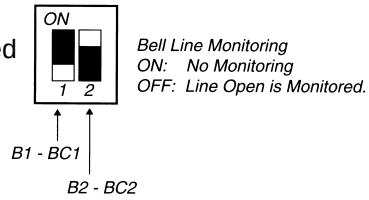
		CHQ-B
Supply Voltage	V_{High}	24V - 40V
	V_{Low}	17V - 31V
	Pulse Voltage	7V - 9V
	Secondary Supply Voltage (BB-BBC)	19.2V - 30V
Current Consumption	Quiescent	290µA (Typ)
	Low Power Mode, 0.75s Polling	106µA (Typ)
	Low Power Mode, 1.5s Polling	96µA (Typ)
	Current at Polling	22mA ±20%
	Current in Alarm	0.7mA
LED Current (External Supply)	Current per Active Bell Line	8mA/line
	Current per Line with Fault	6mA/line
Maximum Output Current		1.0A
Bell Line EOL Device		1KΩ±5%, 2W Resistor and Diode
Input Line EOL Device		10KΩ±20%, 0.25W Resistor
Input On Threshold Level		470Ω±20%
Short Circuit Threshold Level		<50Ω
Open Circuit Threshold Level		>100KΩ
Operating Ambient Temperature Range		–10°C ~ +50°C
Storage Temperature Range (Under Humidity 80%)		–20°C ~ +60°C (<80% RH at 60°C)
Allowable Ambient Humidity (at 40°C)		95% RH Non-Condensing
Dimensions		140mm x 70mm
Weight		Approximately 65g (P.C.B. Only)

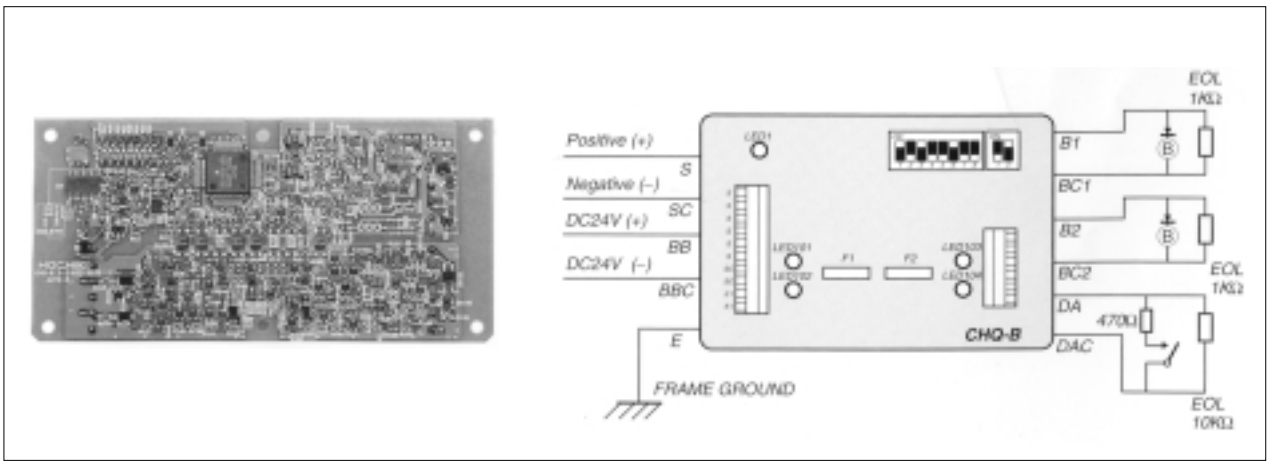
Switch Setting

Address Setting (DIL Switch 1)
Use the Bit #1 to #7 of DIL switch for address
setting by binary code.



Bell line monitoring setting. (DIL Switch 2)
First bit: For B1-BC1.
ON: Non monitoring
OFF: Short/Open Line is monitored
Second bit: For B2-BC2.
ON: Non monitoring
OFF: Short/Open Line is monitored





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