



# Input Module for Monitoring Contacts: CHQ-S

The CHQ-S Input Module for Monitoring Contacts has been developed for an analogue/addressable fire alarm system using Hochiki newly developed GTP transmission protocol

## Features

- Dual Switch Monitor
  - Easy installation
  - Alarm interrupt level 2
  - Monitors two independent volt free contacts.
  - Either contact can be individually selected to be normally open or closed (Open/Short circuit not monitored)
  - Non-polarized S,SC input
  - Loop powered with low current consumption utilising unique 'Low Power Mode'
  - Status LED for indication of communication polling and active input condition

## Operation

This module has 2 channels of monitored inputs for switches and contacts. Either inputs can be easily configured as normally open or closed by a simple 2-bit DIL switch. A second 8-bit DIL switch allows the unit to be set between 1 and 127 as a loop address. When either input becomes active the unit generates a level 2 interrupt signal which allows the fire alarm control panel to respond quickly to the input change. A red status LED flashes when the unit is polled by the fire alarm panel or can be continuously lit when either input is active. Connection to loop and field wiring is via simple screw terminals for easy installation.

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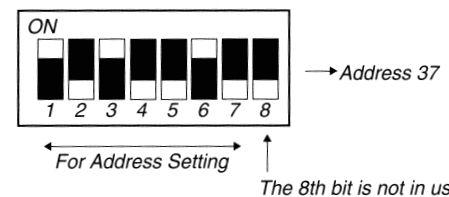
## Applications

The Dual Switch Module has been designed to interface to a variety of inputs such as door contacts, sprinkler flow / door switches and plant equipment faults. The unit is particularly suited to applications where fast response is required to the input change as with remote fire input.

## Switch Setting

### Address Setting (DIL Switch 1)

Use the Bit #1 to #7 of DIL switch for address setting by binary code.



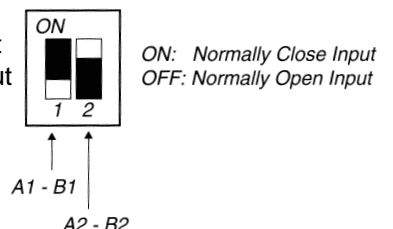
### Input setting for N/O or N/C contact (DIL Switch 2)

First bit: For A1-B1.

- ON: Normally Close Input
- OFF: Normally Open Input

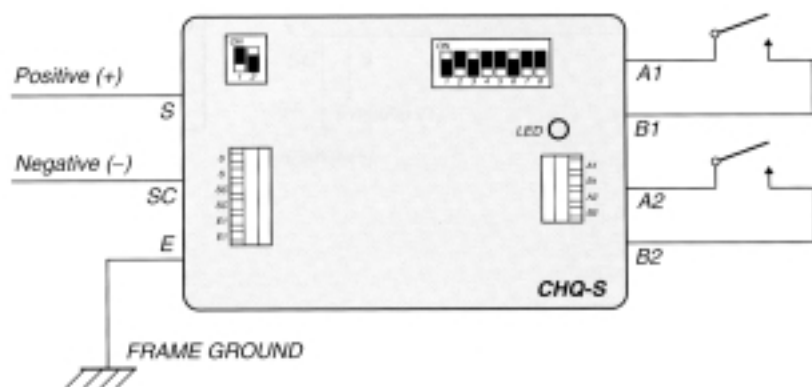
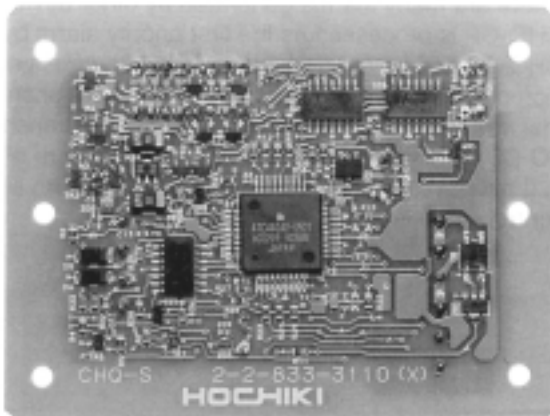
Second bit: For A2-B2.

- ON: Normally Close Input
- OFF: Normally Open Input



## Specifications

		CHQ-S
Supply Voltage Range	V <sub>High</sub>	24V - 40V
	V <sub>Low</sub>	17V - 31V
	Pulse Voltage	7V - 9V
Current Consumption	Quiescent	280µA (Typ)
	Low Power Mode 0.75s Polling	97µA (Typ)
	Low Power Mode 1.5s Polling	86µA (Typ)
	Current at polling	22mA ±20%
	Current in Alarm	4.3mA
	Add 85µA per channel for normally open or closed contact monitoring Current.	
On Threshold Level		<50Ω
Off 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		93mm x 72mm
Weight		Approximately 40g (P.C.B. Only)



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