



FIRE & SAFETY PRODUCTS (A/ASIA) PTY. LTD.

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CONVENTIONAL LOOPS CONTROLLER: CHQ-Z

The CHQ-Z Conventional loops controller has been developed for an analogue/addressable fire alarm system using Hochiki newly developed transmission protocol. This Module has 2 channels of monitored inputs for conventional detectors. When one of the detector is activated, the CHQ-Z transmits the Interrupt signal to the control panel and then transmits the Fire signal and own address number to the control panel. The CHQ-Z has the interrupt signal level 2. The address of each CHQ-Z can be set by a 8-bit DIL switch as address number 1 to 127. The CHQ-Z has a 4-bit microprocessor which controls the timing of transmission, address recognition, fire test, kind signal and fire signal transmission. The data transmission between the control panel and the CHQ-Z is handled by just 2 wire, and connected external power supply enables to drive up to 30 detectors per loop (channel).

Features

Dual Zone Monitor

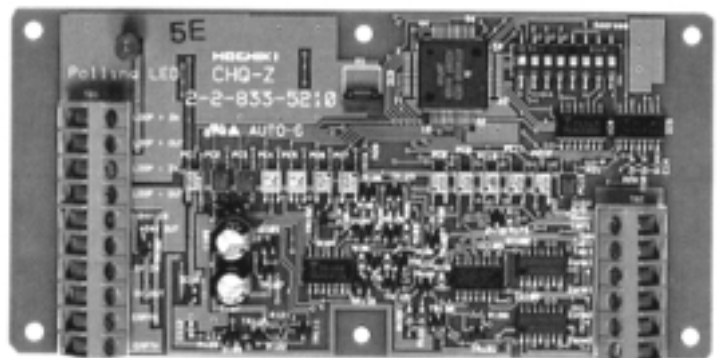
- 2 independent zones in a single loop address
- Connects up to 30 detector per zone (See tables for compatible detectors)
- Alarm interrupt level 2
- Zones open and short circuit monitored
- Simple and reliable addressing by means of 8-bit DIL switches
- Auxiliary output for remote fire indication
- Fire test facility
- Status LED for indication of communication polling

Operation

The CHQ-Z has fully monitored zones for open and short circuits, achieved by a End Of Line (EOL) unit (model:TE-RH-E). When a fire is generated on the zone, the unit generates a level 2 interrupt signal which allows the fire alarm control panel to respond quickly to the fire. The auxiliary output on the CHQ-Z will only operate if it is supported by the control panel. A red status LED flashes when the unit is polled by the fire alarm panel. This unit requires an external 24V supply and is addressed via a simple DIL switch between 1 and 127. Connection to loop and field wiring is via simple screw terminals.

Applications

The Dual Zone Monitor has been designed to interface to two independent zones of conventional detectors, allowing conventional smoke and heat detectors to be interfaced with Hochiki new protocol systems.



Specifications

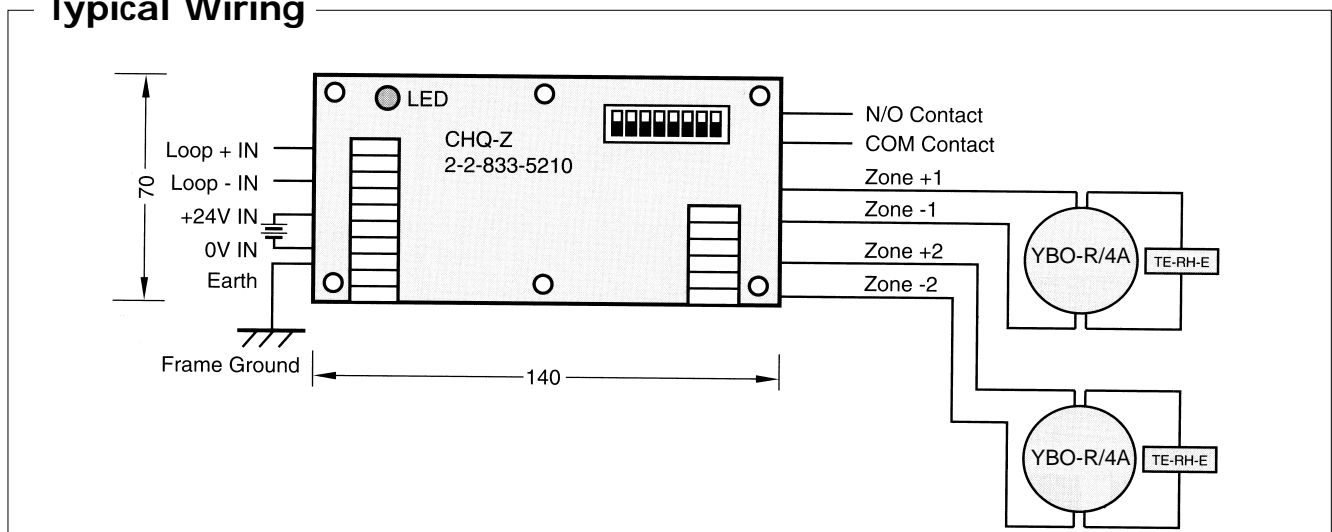
		CHQ-Z	
Supply Voltage Range	Maximum Rated Voltage	S-SC:41V DC V-VC:41DC	
	V _{Low}	S-SC:17 ~ 31V DC V-VC:19.2 ~ 28.8VDC (Filtered)	
	Pulse Voltage (S-SC)	7V - 9V	
Current Consumption	Quiescent	300µA (Typ)	
	Low Power Mode	0.75s Polling	110µA (Typ)
		1.5s Polling	100µA (Typ)
	Current in Alarm	S-SC	30mA (in 20ms)
		V-VC	70mA
Data Transmission Current	22mA ± 20%		
Zone Line Resistance		≤ 50Ω	
Zone Line Capacitance		≤ 0.3µF	
End of Line Device		TE-RH-E	
Remote LED Output		30VDC, 30mA (Open collector Output)	
Connectable detector base on slave line		YBO-R/4A	
Operating Ambient Temperature Range		-10°C ~ 50°C	
Storage Temperature Range (Under Humidity 80%)		-30°C ~ 60°C	
Allowable Ambient Humidity (at 40°C)		80% RH Non-Condensing	
Dimensions		140mm x 70mm	
Weight		Approximately 60g (Not including the mold case)	

Compatibility Table

CHQ-Z	DCD, SLR, DFJ, SIJ, YBO - BASE	30 per Zone MAXIMUM	Minimum of V Low 20v Supply
	DCC, SLK, SIH, DFE YBF-RL/4AH4M BASE	30 per Zone MAXIMUM	V Low 17-31 VDC
	DCA, DFE	40 per Zone MAXIMUM	

NOTE: With other model detectors please check for compatibility results.

Typical Wiring



In line with a continuous programme of product development, the Manufacturer reserves the right to modify or update specifications without notice. It should be noted that the exact specification may vary depending on the configuration of the designed system. The information herein is to assist in determining whether this product is suitable for a given application. This information does not purport to cover all details or variations in the equipment described, nor does it provide for every possible contingency to be met in connection with installation, operation and maintenance. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. NOTHING HEREIN SHALL CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.