



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

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SPECIALIST DISTRIBUTORS OF FIRE PROTECTION PRODUCTS



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Lic No. QEC 1411



RELAY OUTPUT MODULE: CHQ-R

CHQ-R is the Output Module for the Hochiki newly developed transmission protocol system.

Features

Dual Relay Controller

- Easy installation
- Simple and reliable addressing by means of 8-bit DIL switches
- 2 independent volt free relay output with NO and NC contacts
- 1 monitored input (interrupt level 3)
- Loop powered with low current consumption utilising the unique 'Low Power Mode'
- Uses only one loop address
- Status LED for indication of communication polling

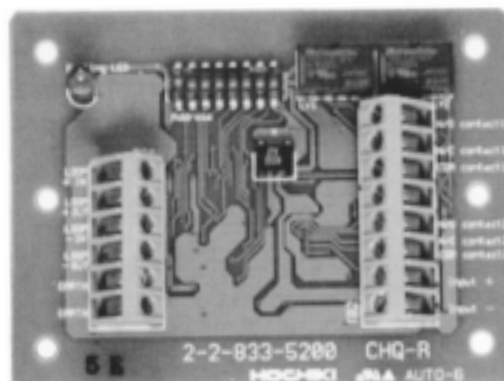
Operation

The two independent change-over relay outputs with NO and NC volt free contacts can be separately driven under the control of the fire alarm panel. No external power supply is required as the unit is loop powered. A DIL

switch allows the unit to be addressed between 1 and 127. 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

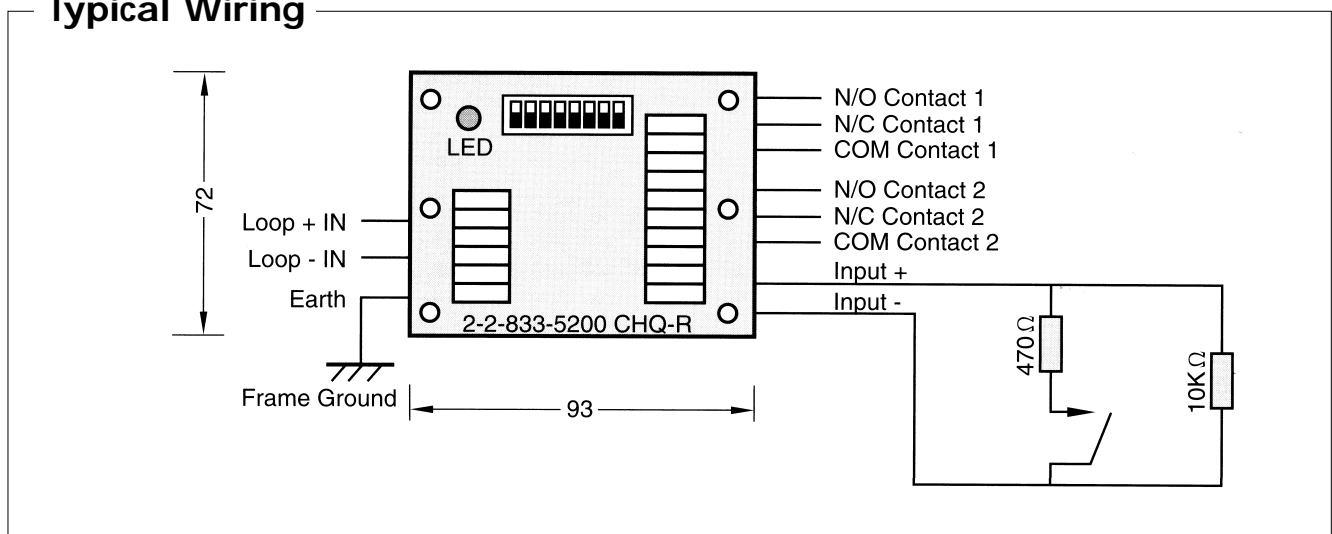
The Dual Relay Output module has been designed to provide two general purpose relay outputs. Each output can be separately driven for control of devices such as dampers or for control of plant and equipment shutdown. The general purpose monitored input can be used for local fire and fault monitoring. The input and both outputs only require the allocation of only one loop address.



Specifications

		CHQ-R	
Supply Voltage Range	Maximum Rated Voltage		41V DC
	V_{Low}		17 ~ 31V DC
	Pulse Voltage		7V - 9V
	Quiescent		300 μ A (Typ)
Current Consumption	Low Power Mode	0.75s Polling	110 μ A (Typ)
		1.5s Polling	100 μ A (Typ)
	Current in Alarm	S-SC	28mA (in 20ms)
	Data Transmission Current		22mA \pm 20%
Input Line Resistance			\leq 50 Ω
Input Line Capacitance			\leq 0.3 μ F
End of Input Line Resistance			10K Ω \pm 5% (\geq 0.25W)
Maximum Contact Rating			30VDC, 1A (Resistive Load)
Input ON Threshold Level			\geq 100K Ω
Open Circuit Threshold Level			470 Ω \pm 5% (\geq 0.25W)
Operating Ambient Temperature Range			-10 $^{\circ}$ C ~ 50 $^{\circ}$ C
Storage Temperature Range (Less than 80%RH)			-30 $^{\circ}$ C ~ 60 $^{\circ}$ C
Allowable Ambient Humidity (at 60 $^{\circ}$ C)			80% RH Non-Condensing
Dimensions			93mm x 72mm
Weight			Approximately 50g (Not including the mold case)

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.