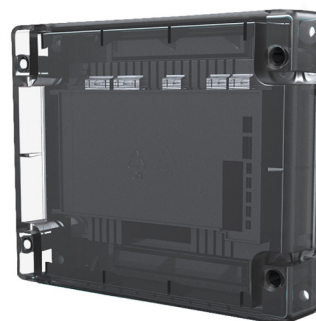# LEAKalarm

CHQ-MRC2(SCI)

Addressable Mains Relay Controller

Features

▸ Loop powered, with single loop address
▸ Single mains rated relay contact
▸ Relay Contact Rated at 250 VAC @ 5 A (resistive) & 48 VDC @2 A (resistive)
▸ Auxiliary monitored input
▸ DIN rail version available
▸ Both models feature an integral short-circuit isolator

Description

Model CHQ-MRC2(SCI) is a Single Input/Output Module, which provides a single, mains-rated relay output for the control of such as water shut down valves when used in a LEAKalarm water leak detection system installation.

The unit is also available as a DIN Rail mountable version; with an integral short-circuit isolator. The CHQ-MRC2(SCI) utilises simple DIL switches for reliable addressing.

Specification

Low Power Mode (0.75s)	100 µA
Quiescent Current	300 µA
Current Consumption	22 mA ± 20 % (polling)
Current in Short-Circuit	8 mA
Maximum Short-Circuit Current	1 A
Relay Contact Rating**** no fuses are fitted on this device. The relay output circuit must therefore be protected by a suitable over-current protection device to prevent excessive current through the relay contacts. Refer to the relay contact specification in this document.	48 VDC max, 2 A (resistive load), 250 VAC max, 5 A (resistive load) – For mains ac switching, the Control Panel must be compliant with Low Voltage Directive for SELV circuits.
Input E.O.L. Resistor	10 kΩ, ±5%, 0.25 W
Input Threshold Level	ON=470 Ω, Short cct ‹50 Ω, Open cct ›100 KΩ
Operating Temperature Range	-10ºC to +50ºC
Storage Temperature Range	-30 ºC to +60 ºC
Maximum Humidity	95% RH non-condensing (at 40 ºC)
Weights (g) & Dimensions (mm)	Module	360	L=157 x W=127 x D=35 (Module plus Lid) D=79 (CHQ Module plus Lid plus CHQBACKBOX) (add 235 to module weight when using CHQ-BACKBOX)
	DIN Enclosure	145	L=119 x W=108 x D=24
Colour and Enclosure Material	CHQ Module & CHQ-BACKBOX White ABS, DIN Module Green ABS, Module Lid Semi-Opaque Black ABS as standard (white version – CHQ-LID(WHT) also available)		

Ordering Codes

Product	Part Number
Analogue Mains Relay Controller Module with SCI	CHQ-MRC2(SCI)
Analogue Mains Relay Controller DIN Module with SCI	CHQ-MRC2/DIN(SCI)

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