ESPintelligent

CHQ-MRC2(SCI)

Analogue Mains Relay Controller

Features

▸ Loop powered
▸ 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 devices as dampers, extractors or plant and equipment shutdown. The monitored input can be used for local power supply fault monitoring or as a general-purpose input.

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

Operating Voltage	17 ~ 41 VDC		
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	-10 ºC to +50 ºC		
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)		

* Fire alarm control panel compatibility required for these products.

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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