

# Analogue Mains Relay Controller

## CHQ-MRC2(SCI)



### 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		
Order codes *1		CHQ-MRC2(SCI) (module with SCI) CHQ-MRC2/DIN(SCI) (DIN module with SCI)
Operating voltage		17 - 41 V dc
Low Power Mode (0.75s)		100 $\mu$ A
Quiescent current		300 $\mu$ A
Current consumption		22 mA $\pm$ 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 k $\Omega$ , $\pm$ 5%, 0.25 W
Input threshold level		ON=470 $\Omega$ , Short cct <50 $\Omega$ , Open cct >100 K $\Omega$
Operating Temperature Range		-10 $^{\circ}$ C to +50 $^{\circ}$ C
Storage Temperature Range		-30 $^{\circ}$ C to +60 $^{\circ}$ C
Maximum Humidity		95%RH non-condensing (at 40 $^{\circ}$ C)
Weights (g) & Dimensions (mm)	CHQ-MRC2(SCI) 133	L=149 x W=90 x D=25
	CHQ-MRC2/DIN(SCI) 114	L=119 x W=108 x D=24
Colour and enclosure material		CHQ Adaptor Plate White ABS, DIN Module Green ABS

\*1 Fire alarm control panel compatibility required for these products.

To ensure compliance with EN54-17:2005 and EN54-18:2005 is maintained the CHQ-MRC2(SCI) and CHQ-MRC2/DIN(SCI) must be installed within an enclosure weighing greater than 4.75Kg. The enclosure should have an ingress protection rating of IP65 or greater.

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