Analogue Mains Relay Controller
CHQ-MRC

Features

▸ Loop Powered

▸ Single Address

▸ Single Mains Rated Relay Contact

▸ Relay Contact Rated at 250VAC @ 5 amp (Resistive) & 48Vd.c. @ 2 amps (Resistive)

▸ Auxiliary Monitored Input

▸ "Smart-Fix" Housing System for flexibility

▸ Available as DIN-Rail version

▸ Both versions available with or without integral SCI

Description

Model CHQ-MRC 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 or without an integral short-circuit isolator. The CHQ-MRC utilises simple DIL switches for reliable addressing. A back box is also available (CHQ-BACKBOX) which, when used in conjunction with the CHQ-MRC, increases the IP rating to IP65.

Specification

Order codes *[1]			CHQ-MRC (module) CHQ-MRC(SCI) (module with SCI) CHQ-MRC/DIN (DIN module) CHQ-MRC/DIN(SCI) (DIN module with SCI)
Operating voltage			17 - 41 Vd.c.
Low Power Mode (0.75s)			110µA*[2]
Quiescent current			300µA*[2]
Current consumption			22 mA ± 20 % (polling)
Current in short-circuit			8mA (SCI models only)
Maximum short-circuit current			1A (SCI models only)
Relay Contact Rating			48Vd.c. max, 2A (resistive load), 250Va.c. max, 5A (resistive load). Mains AC switching should only be on the same phase as the control panel.
Input E.O.L. resistor			10kΩ, ±5%, 0.25W
Input threshold level			ON=470Ω, Short cct <50Ω, Open cct >100KΩ
Operating Temperature Range			-10°C to +50°C
Storage Temperature Range			-30°C to +60°C
Maximum Humidity			95%RH Non Condensing (at 40°C)
Weights & Dimensions	CHQ-MRC	325g	L=157mm x W=127mm x D=35mm (module inc lid) D=79mm (module inc lid & CHQ-BACKBOX) (add 235g to module weight when using CHQ-BACKBOX)
	CHQ-MRC(SCI)	328g	
	CHQ-MRC/DIN	111g	L=119mm x W=108mm x D=24mm
	CHQ-MRC/DIN(SCI)	114g	
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))

*[1] Fire alarm control panel compatibility required for these products. *[2] SCI version will take additional current (50µA).