Analogue Dual Relay Controller
CHQ-DRC2(SCI)

Features

▸ Loop powered

▸ Single loop address

▸ 2 Independently controlled changeover relays

▸ Relays contact rated at 30 V dc at 1 A

▸ Auxiliary monitored input

▸ DIN-Rail version available

▸ Both models feature an integral short-circuit isolator

▸ Both models approved by LPCB

▸ SIL Level 2 approved variant available

Description

Model CHQ-DRC2(SCI) is a Dual Relay Controller designed to provide two general-purpose relay outputs, each output can be driven separately for control of such devices as dampers or for control of 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; both models feature an integral short-circuit isolator. The CHQ-DRC2(SCI) utilises simple DIL switches for reliable addressing. A back box is also available (CHQ-BACKBOX) which, when used in conjunction with the CHQ-DRC2(SCI), increases the IP rating to IP65.

Specification

Order codes*[1]	CHQ-DRC2(SCI)	(module with SCI)	
	CHQ-DRC2(HFP)-SCI		
	CHQ-DRC2/DIN(SCI)	(DIN module with SCI)	
	CHQ-DRC2/DIN(HFP)-SCI		
Operating voltage	17 - 41 V dc		
Low Power Mode (0.75s)	170 μA		
Quiescent current	300 μA		
Current consumption	22 mA $\pm$ 20 % (polling)		
Current in short-circuit	8 mA		
Maximum short-circuit current	1 A (loop)		
Relay Contact Rating	30 V dc max, 1 A (resistive load)		
Input E.O.L. resistor	10 kΩ, $\pm$5%, 0.25 W		
Input threshold level	ON=470 Ω, Short cct <50 Ω, Open cct >100 KΩ		
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 (g) & Dimensions (mm)	Module Enclosure	343	L=157 x W=127 x D=35 (Module & Lid) D=79 (Module, Lid & CHQ-BACKBOX) (add 235 to module weight when using CHQ-BACKBOX)
	DIN Enclosure	124	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)		

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

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