

Analogue Dual Relay Controller

CHQ-DRC



Features

- ▶ Loop Powered
- ▶ Single Address
- ▶ 2 Independently Controlled Changeover relays
- ▶ Relays Contact Rated at 30Vdc at 1 amp
- ▶ 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-DRC 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; with or without an integral short-circuit isolator. The CHQ-DRC utilises simple DIL switches for reliable addressing. A back box is also available (CHQ-BACKBOX) which, when used in conjunction with the CHQ-DRC, increases the IP rating to IP65.

| Specification | | | |
|--------------------------------------|------------------|---|---|
| Order codes* ¹ | | CHQ-DRC (module) CHQ-DRC(SCI) (module with SCI) CHQ-DRC/DIN (DIN module) CHQ-DRC/DIN(SCI) (DIN module with SCI) | |
| Operating voltage | | 17 - 41 Vd.c. | |
| Low Power Mode (0.75s) | | 120µA* ² | |
| Quiescent current | | 250µA* ² | |
| Current consumption | | 22 mA ± 20 % (polling) | |
| Current in short-circuit | | 8mA (SCI models only) | |
| Maximum short-circuit current (Loop) | | 1A (SCI models only) | |
| Relay Contact Rating | | 30 Vd.c. max, 1A (resistive load) | |
| 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-DRC | 340g | L=157mm x W=127mm x D=35mm (Module & Lid) D=79mm (Module, Lid & CHQ-BACKBOX) (add 235g to module weight when using CHQ-BACKBOX) |
| | CHQ-DRC(SCI) | 343g | |
| | CHQ-DRC/DIN | 120g | L=119mm x W=108mm x D=24mm |
| | CHQ-DRC/DIN(SCI) | 124g | |
| 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).