

CHQ-DIM2(SCI)

Intelligent (Addressable) Dual Input Module

Features

- ▶ Single Loop Address
- ▶ Loop Powered
- ▶ 2 Independent Inputs for Monitoring of Volt Free Contacts
- ▶ Each Input can be Configured to Monitor either Normally Open or Normally Closed contacts
- ▶ DIN-Rail version available
- ▶ Both models feature an integral SCI
- ▶ Both models approved by LPCB
- ▶ SIL level 2 approved variant available.



Description

Model CHQ-DIM2(SCI) is a Dual Input Module designed to interface to a variety of inputs such as door contacts, sprinkler flow/door switches and plant equipment. The unit supports a resistive feature for the monitoring of the inputs when operating in Enhanced mode*¹. Please check for panel support of this feature, failure to do so will regress this device into Compatibility mode where the inputs are not monitored. Also available as a DIN Rail mountable version; both models feature an integral short-circuit isolator.

A back box is also available (CHQ-BACKBOX) which, when used in conjunction with the CHQ-DIM2(SCI), increases the IP rating to IP65.

NOTE: This module MUST be installed next to any Type 1 detection device (no transmission path should be present).*³

Specification

Ordering code	CHQ-DIM2(SCI) - Module / CHQ-DIM2/DIN(SCI) - DIN Module		
Operating voltage	17 – 41 VDC		
Quiescent current (typ)	280 μ A		
Current consumption	22 mA $\pm$ 20 % (polling), 4.3 mA (both inputs active)* ²		
Current in short circuit	8 mA		
Max short-circuit current (loop)	1 A		
Input line resistance	ON threshold <50 Ω , OFF threshold >100 K Ω		
Operating temperature range	-10 °C to +50 °C		
Storage temperature range	-30 °C to +60 °C		
Max humidity	95%RH - Non Condensing (at 40 °C)		
Weights (g) / Dimensions (mm)	CHQ-DIM2 (SCI)	327 (+235 with lid and backbox)	(with lid) L 157 x W 127 x D 35 (with lid and backbox) D 79
	CHQ-DIM2/DIN (SCI)	113	L 108 x W 119 x D 24

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

*² Note: - Add 85 μ A per input for normally closed contact monitoring.

*³ Applies to systems approved to EN54-13.