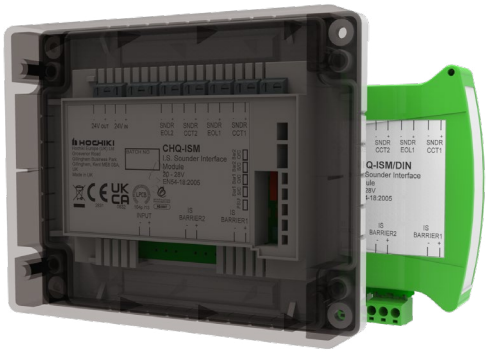
IS
Intrinsically Safe
& Explosion Proof

CHQ-ISM

Intrinsically Safe Sounder Interface Module

Features

- Provides dual sounder circuits
- Provides fault-monitored input
- Interfaces between loop and I.S. sounders/beacons
- Requires I.S. barrier
- Allows 1 I.S. Sounder or Beacon to be connected
- Fully monitored for short circuits
- Requires 24 VDC external power supply
- DIN-Rail version available
- SIL Level 2 approved variants available.



Description

This sounder control module interfaces between the Hochiki analogue system via a CHQ-DSC or conventional sounder O/Ps and the intrinsically safe sounder/beacon units via an intrinsically safe barrier.

The module provides line monitoring for open or short circuits on the wiring connected to both the safe and hazardous areas.

Specification			
Ordering codes	CHQ-ISM - Module / CHQ-ISM/DIN - DIN Module		
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 / dimensions (mm)	CHQ-ISM	327 (+235 with lid and backbox)	(with lid) L 157 x W 127 x D 35 (with lid and backbox) D 79
	CHQ-ISM/DIN	113	L 108 x W 119 x D 24

Parameters	Quantity			Units	Notes
	Min	Typical	Max		
PSU supply voltage	20	24	28	V	-
IS Barrier 1 voltage	20	-	28	V	-
IS Barrier 2 voltage	20	-	28	V	-
Quiescent voltage	-	-	28	mA	Excluding current drawn by SNDR EOLs and IS BARRIER device loads
SNDR CCT1 current powered with 24V	-	12	50	mA	Does not include current possibly drawn by SNDR EOL1 (e.g. add 24 mA if using a 1k EOL resistor)
SNDR CCT2 current powered with 24V	-	12	15	mA	Does not include current possibly drawn by SNDR EOL2 (e.g. add 24 mA is using a 1k EOL resistor)
IS Barrier 1 load current	-	-	40	mA	Actual value dependant on IS sounder used
IS Barrier 2 load current	-	-	40	mA	Actual value dependant on IS sounder used
Maximum cable resistance on IS barrier terminals	-	-	25	R	This is the combined total wiring resistance between the IS Barrier Terminals and the IS device
EOL CTT1	User determined				Hochiki CHQ-DSC module uses a 1K (not supplied)
EOL CTT2	User determined				Hochiki CHQ-DSC module uses a 1K (not supplied)
Monitored input EOL	10 KΩ resistor (supplied)				10 KΩ ± 5% 0.4 W
Input thresholds	9.5	10	10.5	KΩ	Normal condition (10 KΩ ±5%)
	100	-	-	Ω	On / activated (>100Ω)
	-	-	50	Ω	On / activated (<50Ω)