

Intrinsically Safe Sounder Interface Module

CHQ-ISM



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 24vdc external power supply
- ▶ Available as DIN
- ▶ 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.

Parameters	Quantity			Units	Notes
	Min	Typ.	Max		
PSU Supply Voltage	20	24	28	V	
I.S. BARRIER1 Voltage	20	-	28	V	
I.S. BARRIER2 Voltage	20	-	28	V	
Quiescent Current	-	-	50	mA	Excluding current drawn by SNDR EOLs and IS BARRIER device loads.
SNDR CCT1 Current powered with 24V	-	12	15	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)
I.S. BARRIER 1 Load Current	-	-	40	mA	Actual value dependant on IS sounder used.
I.S. BARRIER 2 Load Current	-	-	40	mA	Actual value dependant on IS sounder used.
Maximum Cable Resistance on I.S. barrier terminals	-	-	25	R	This is the combined total wiring resistance between the IS Barrier Terminals and the IS device.
EOL CCT1	User Determined				Hochiki CHQ-DSC module uses a 1K (not supplied)
EOL CCT2	User Determined				Hochiki CHQ-DSC module uses a 1K (not supplied)
Monitored input EOL	10 K Ω resistor (supplied)				10 K Ω \pm 5% 0.4 W
Input Thresholds	9.5	10	10.5	K Ω	Normal condition (10 K Ω \pm 5%)
	100	-	-	Ω	On/Activated (>100 K Ω)
	-	-	50	Ω	On/Activated (<50 Ω)

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