



## Intrinsically Safe Sounder Interface Module (CHQ-ISM)

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

- 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
- Available as DIN
- SIL Level 2 approved variants available.

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 if 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 $\Omega$ resistor (supplied)				10 K $\Omega$ $\pm$ 5% 0.4 W
Input Thresholds	9.5	10	10.5	K $\Omega$	Normal condition (10 K $\Omega$ $\pm$ 5%)
	100	-	-	$\Omega$	On/Activated (>100 K $\Omega$ )
	-	-	50	$\Omega$	On/Activated (<50 $\Omega$ )