## **ESP**intelligent

# 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
- 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				
	Min	Typ.	Max	Units	Notes
PSU Supply Votage	20	24	28	V	
I.S. BARRIER1 Voltage	20	-	28	٧	
I.S. BARRIER2 Voltage	20	-	28	٧	
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 SND 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 SND 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 devi
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 KΩ ± 5% 0.4 W
Input Thresholds	9.5	10	10.5	KΩ	Normal condition (10 K $\Omega$ ±5%)
	100	-	-	Ω	On/Activated (>100 K $\Omega$ )
	-	-	50	Ω	On/Activated (<50Ω)









