

MRI-4003-LF

4000 SERIES LOW FREQUENCY SOUNDER BASE



Description

The MRI-4003-LF Low Frequency sounder base is designed to meet NFPA 72 requirements for sleeping areas operating within a frequency range of 520 Hz \pm 10%, ensuring the most effective alarm to awake individuals during emergencies.

The MRI-4003-LF provides a built-in localized alarm sounding for all MRI-4000 detectors, it eliminates the need for an external sounder, significantly reducing installation costs and saving valuable space.

The low frequency sounder base is compatible with all addressable MRI-4000 detectors and with FACP working on MGC Protocol.

The audible tone patterns (Temporal, Continuous, 20 BPM, March) and sound levels (High, Low) are easily selectable via the MGC MP configuration tool at the compatible FACP.

The MRI-4003-LF includes a mounting plate that simplifies wiring, ensuring easy and fast installation. It also offers multiple mounting options, accommodating various electrical boxes such as 3"x2" single gang, 3-3/4"x4" double gang, 4"x2" single gang, standard 4"x4" square and 4" octagon.

Features

- Comprehensive Compliance: Fully meets NFPA 72 for low frequency sounder codes
- Optimal Alarm Tone: Emits a 520 Hz \pm 10% square wave tone
- Localized Alarm Sounding: Built-in alarm sounding capability for all MRI-4000 detectors
- Cost and Space efficiency: Eliminates the need for external sounder, reducing installation costs and saving space. Mounting plate included to simplify wiring for easier and faster installation
- Configurable Operation: Audible tone patterns and sound levels are selectable via the MGC MP configurable tool at the FACP
 - o Temporal
 - o Continuous
 - o 20 BPM
 - o March
- Versatile Mounting Options: Can be mounted on various electrical boxes, single gang, double gang, 4" square and 4" octagon boxes
- Listed for both wall and ceiling mounting

Technical Specifications

Operating temperature	0°C to 49°C (32°F to 120°F)
Humidity range	0% to 93%
Frequency Range	520Hz \pm 10%
Nominal voltage	Regulated 24VDC/VFWR
SLC Standby Current	1.56 mA
SLC Alarm Current	2.34 mA
Operating Voltage Range (RMS)	16 – 33 VDC/VFWR
Base Diameter	182mm (7-3/16 in)
Base Height	32mm (1-1/4 in)
Input Terminal Wire Gauge	12 AWG to 22 AWG
Installation Environment	For Indoor Use Only



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Catalog Number

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Issue 2

Audible Ratings

Overall Sound Pressure Level (Reverberant) @ 10 feet (dBA)

Sound Pattern	UL Reverberant (dBA@10ft)					
	16 VDC	Regulated 24 VDC	33 VDC	16 VFWR	Regulated 24 VFWR	33 VFWR
Temporal	76.03	76.40	75.64	76.01	75.51	76.37
Continuous	76.03	76.40	75.64	76.01	75.51	76.37
20 BPM	76.03	76.40	75.64	76.01	75.51	76.37
March	76.03	76.40	75.64	76.01	75.51	76.37

Directional Sound Characteristics

Horizontal Angle	Vertical Angle	OSPL (dBA)
+/- 10	+/- 5	-3
+/- 55	+/- 10	-6
+/- 90	+/- 90	-0.3

Operating RMS Currents (mA)

Sound Pattern	Regulated 24VDC	Regulated 24VFWR
Continuous	75	112
Temporal	76	115
20 BPM	78	116
March	76	115

Ordering Information

Model	Description
MRI-4003-LF	4000 Series Low Frequency Sounder Base