The LP Symphoni range of Sounders and Sounder Beacons are designed to operate on the robust MZX digital loop, An internal line isolator automatically provides short circuit protection against cable faults thus reducing the need for additional line isolator modules.

The addressable loop powered sounders meet the requirements of EN54 part 3 whilst the loop powered addressable sounders with beacon are also approved to EN54 part 23 as open category devices.

A high (103dB) output or low (90dB) output can be selected for any of the 16 selectable tones.The high brightness LED beacon provides a 2 candela output with adjustable flash rate.

Programming has been simplified by allowing the tone, volume and flash rate to be set by the MZX Consys configuration utility. This means adjustments to the settings can be achieved without having to access the sounder location. Changes can be made to all sounders by a single panel software download which saves time and reduces commissioning costs.

Reflective Sound Monitoring is employed to monitor the audio output of the sounder. This is particulary benifical during regular weekly sounder tests.

RSM allows the system to listen for audibility whenever the sounders are operated and the MZX Technology panel will alert the user if any sounders fail to operate.

Failure of the beacon would also generate a fault at the MX control panel.

The Symphoni Loop Powered range includes a sounder only model and a Sounder/Beacon model.

Both these are available with Red or White housings or a weatherproof IP65 red housing

Features

// High Output programmable sounder and sounder beacon
// Loop Powered from MX Technology® Digital Loop
// Indoor and Weatherproof outdoor versions available
// High Brightness LED Beacon
// Red or White housings
// Software programmable
// 16 Tones
// 2 Flash Rates
// Integral Line Isolator
// RSM Reflective Sound Monitoring
// Visual alarm approved to EN54-23 open category
// Audible alarm approved to EN54-3

Dimensions

Indoor Sounder	104 mm x 104 mm x 91 mm
Outdoor Sounder	108 mm x 108 mm x 100 mm

Weight

Indoor Sounder	0.208 kg
Indoor Sounder Beacon	0.22 Kg
Outdoor Sounder	0.288 Kg
Outdoor Sounder Beacon	0.30 Kg

Materials

Housing	ABS FR

Environmental Temperature

Operating Indoor models	-10°C to +55°C
Outdoor models	-20°C to +70°C
Storage Indoor models	-25°C to +70°C
Outdoor models	-25°C to +70°C
Humidity	Up to 95% RH (non condensing)
	IP rating
Indoor models	IP21C (EN60529)
Outdoor models	IP65

EMC

The range complies with the following:
Product family standard EN50130-4 in respect conducted disturbances, radiated immunity, electrostatic discharge, fast transients and slow high energy. EN61000-6-3 for emissions.

Electrical

Addressable Loop Voltage 20-40 VDC
DC Loop loading
Quiescent 450µA
Alarm Sounder 3.4 mA to 8.1 mA
Sounder Beacon 7.6 mA to 13mA (dependant on volume & flash rate)

Ordering Information

516.800.960	LPSY800-R L/P Symphoni addressable sounder red body indoor use
516.800.961	LPSY800-W Symphoni addressable sounder white body indoor use
516.800.962	LPSY865 Symphoni IP65 addressable sounder IP65 red body outdoor use
516.800.966	LPBS800-R Open class Symphoni addressable beacon sounder red body white flash indoor use
516.800.967	LPBS800-W Open class Symphoni addressable beacon sounder white body white flash indoor use
516.800.968	LPBS865 Open class Symphoni addressable beacon sounder IP65 red body white flash outdoor use

Primary Tone	Name	Tone Description		
		Pattern	Frequency (Hz)	Rate
1	Dutch Slow Whoop	Sweep	500 to 1200	500Hz rising to 1200Hz over 3.5s silence 0.5s repeat
2	7Hz Fast Sweep	Sweep	800 to 970	0.1428s ramp 7Hz
3	BS 1Hz Sweep	Sweep	800 to 970	1Hz
4	2 Tone	Alternating	660/880	500ms per tone
5	Temporal 4	Intermittent	880	500ms on 500ms off x 4 followed by 1.5s silence
6	Temporal 3	Intermittent	880	500ms on 500ms off x 3 followed by 1.5s silence
7	March Time Beep	Intermittent	880	500ms on 500ms off
8	Continuous 970	Continuous	970	Steady
9	Continuous 850	Continuous	850	Steady
10	DIN 1 Hz Sweep	Sweep	1200 to 500	1200Hz falling to 500Hz over 1s and repeat
11	Banshee LF Buzzer	Sweep	800 to 950	120Hz
12	3Hz Banshee Fast Sweep	Sweep	800 to 950	3 Hz
13	9Hz Banshee Fast Sweep	Sweep	800 to 950	9 Hz
14	Alternating	Alternating	554/440	554Hz for 100ms and 440Hz for 400ms
15	Yodalarm	Alternating	800 / 1000	250ms for each frequency
16	Conventional Bell – Note 1	Continuous	1450	Steady

Note 1 : This is a simulated bell tone with a limited bandwidth. It is not advisable to mix conventional bells and electronic sounders producing a simulated bell tone.

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