Simplex

*UL listed**

Datasheet

MX Technology Addressable Visual Indicating Device (VID)

Addressable Loop Power Sounder Beacon / Sounders Devices and Bases

Description

MX Loop Powered Visual Indicating Device (VID) Sounder Beacons and Sounders use MX technology communication for control and power.

These units operate with Simplex™ 4100ES, 4010ES, and 4007ES Fire Alarm Control Units (FACUs) equipped with MX loop technology.

MX loop communications provide supervision of the devices. You can turn on supervision with the tone selection control in the MX Loop Module. You can change beacon flash rate at the sounder beacon with the MX 850EMT Engineering Management Tool.

The sounder beacons and sounders are available in ceiling and wall mounted variants. The ceiling mounted variants have a base for fitting a fire detector. Alternatively, a blanking cap is fitted. All VID sounder beacons and sounders have a built-in two port loop short circuit isolator. You can configure settings for tones, volume, beacon flash and status monitoring with the 850EMT or 801AP service tool.

Features

MX Technology Addressable Loop Power Sounder Beacon and Sounders

- Compact, unobtrusive, and discrete design
- Listed to UL 464 and UL 464A. See Table 1 and Table 2 for specific listing details.
- Low current draw due to energy efficient LED beacon
- Built-in line isolator
- Options for multiple tones, volume, and flash rates
- Independent addressable control of the sounder and beacon
- Power and data without additional power supplies or wiring
- Locking pin to prevent unauthorized removal at base
- Rectangular wall mount with indoor and outdoor options
- Indoor models are semi-flush or surface with a choice of shallow or deep back box

Compatibility

Use with Simplex 4100ES, 4010ES and 4007ES series FACUs equipped with MX Loop technology.

For specifications and requirements, see Table 4 or refer to the installation document *579-1317*.

Address programming and configuration

The default address configuration is 255. Use either the 850EMT or 801AP service tool to set the address before installing the devices. To set the address, complete the following instructions:

1. Remove the front cover to access the programming port on wall devices.
2. Use the 850EMT tool to set the tone, flash rate, and volume level.

Figure 1: 4906-5210

Figure 2: 4906-5213

Addressable Wall Sounder and Sounder Beacon VID - indoor application

Figure 3: 4906-5211

Figure 4: 4906-5214

Addressable Wall Sounder and Sounder Beacon VID - indoor application

Figure 5: 4906-5212

Figure 6: 4906-5215

Addressable Wall Sounder and Sounder Beacon VID - outdoor application

Figure 7: 4098-5217

Figure 8: 4098-5220

Addressable Sounder and Sounder Beacon Base - indoor application

*See table 1 and table 2 for specific listing details. Additional listings may be applicable; contact your local product supplier for the latest status.

Product selection

Table 1: Product selection - base variant

Model	Description	Housing color	Flash color	Compatibility	UL Listing
4098-5217	Addressable Base Sounder	White	-	Compatible with 4905-5201 and 4905-5202	UL 464A
4098-5220	Addressable Base Sounder Beacon VID	Clear	Red		

Table 2: Product selection - wall variant

Model	Description	Housing color	Flash color	Compatibility	UL Listing
4906-5210	Addressable Wall Sounder White	White	-	Compatible with 4905-5203, 4905-5204, 4905-5205, 4905-5206, and 4905-5207	UL 464 UL 464A
4906-5211	Addressable Wall Sounder Red	Red	-		
4906-5212	Addressable Wall Sounder Waterproof		-	-	
4906-5213	Addressable Wall Sounder Beacon VID White	White	Red	Compatible with 4905-5203, 4905-5204, 4905-5205, 4905-5206, and 4905-5207	UL 464A UL 1638A
4906-5214	Addressable Wall SounderBeacon VID Red	Red			
4906-5215	Addressable Wall Sounder Beacon VID Weatherproof			-	

Table 3: Accessories - sold separately

Model	Description	Housing color
4905-5201	Blanking Cap for Sounder Base	White
4905-5202	Conduit Adaptor for Sounder Base	
4905-5203	Shallow Surface Back Box for Indoor Wall Sounder	Red
4905-5204		White
4905-5205	Flush Back Box Adaptor for Indoor Wall Sounder	Metal
4905-5206	Deep Surface Back Box for Indoor Wall Sounder	Red
4905-5207		White

Technical specification

Table 4: Technical specification

-	4098-5217	4098-5220	4906-5210	4906-5211	4906-5212	4906-5213	4906-5214	4906-5215
Type	**Sounder**	**Sounder Beacon**	**Sounder**			**Sounder Beacon**		
Mounting orientation	Ceiling		Wall					
Indoor / outdoor	Indoor		Indoor		Outdoor	Indoor		Outdoor
Weight	46 g (5.15 oz)	154 g (5.4 oz)	182 g (6.4 oz)	182 g (6.4 oz)	358 g (12.6 oz)	194 g (6.8 oz)	194 g (6.8 oz)	372 g (13.1 oz)
Dimensions	114 mm x 45 mm (ØxH)		89 mm x 135 mm x 40 mm		105 mm x 153 mm x 97 mm	89 mm x 135 mm x 40 mm		105 mm x 153 mm x 97 mm
Operating temp.	0°C to 70°C (32°F to 158°F)		0°C to 49°C (32°F to 120°F)		25°C to 70°C (13°F to 158°F)	0°C to 49°C (32°F to 120°F)		25°C to 70°C (13°F to 158°F)
Storage temp.	25°C to 70°C (13°F to 158°F)							
Humidity	Up to 95% non-condensing							
Sounder volume setting	4		2					
Number of selectable tones	15		16					
Isolator	Yes							
Beacon flash rate	-	0.5 Hz to 1 Hz	-	-	-	0.5 Hz to 1 Hz		
IP rating	IP 21	IP 21	IP 21	IP 21	IP 55	IP 21	IP 21	IP 55
Wiring connection	Terminal blocks, for wire size 0.5 mm^2 to 2.5 mm^2 (20 AWG to 14 AWG)							

Note: Refer to *579-1317* for installation instructions.

Table 5: Output

Typical Sounder output at 1m (3.28 ft)		
High volume	90 dBA	100 dBA
Mid-high volume	80 dBA	-
Mid-low volume	70 dBA	-
Low volume	60 dBA	90 dBA

Table 6: Loop loading

Sounder volume	Beacon flash rate, if applicable	Wall sounder	Wall sounder beacon	Base sounder	Base sounder beacon
OFF	OFF	0.35 mA	0.35 mA	0.88 mA	0.88 mA
LOW	OFF	3.2 mA	3.2 mA	3.0 mA	3.0 mA
HIGH	OFF	8.6 mA	8.6 mA	4.8 mA	4.8 mA
HIGH	0.5 Hz	-	11.2 mA	-	8.0 mA
HIGH	1 Hz	-	13.6 mA	-	9.6 mA

Note: Refer to the loop loading calculator for these units.