

XP95A

Sounder Visual Indicator Base



Product overview

Product	Sounder Visual Indicator Base
Part No.	45681-526 (Red LED) 45681-525 (Yellow LED)
Digital communication	XP95, (Discovery and CoreProtocol® compatible)

Compliance



Product information



CAUTION: Product Use

The XP95A Sounder Visual Indicator Base is only certified as a base to which a suitable detector can be installed. It must not be used as an evacuation or alarm notification device. The device is suitable for indoor use only.

The XP95A Sounder Visual Indicator Base is a loop-powered sounder and visual indicator combined with a standard Intelligent mounting base for indoor use only. It is used to sound an audible signal in enclosed areas. It is not for use as evacuation notification.

The XP95A Sounder Visual Indicator Base can be used either with a detector fitted or with a cap for operation as a stand-alone alarm device.

- Two volume ranges 53-67dB(A) and 67-78dB(A) at 1 m
- Loop powered
- Synchronization of 'alert' and 'evacuate' tones
- Synchronization of flash
- Flash rate of once per second
- Group addressing
- Unique acoustic and visual indicator self test

Technical data

All data is supplied subject to change without notice. Specifications are typical at 24 V, 73°F and 50% RH unless otherwise stated.

Supply voltage	17-28 V dc
Digital communication	XP95, (Discovery and CoreProtocol compatible)
Current Consumption at 24V dc with protocol polling	
Normal standby	<900 µA
Switch-on surge	1.2mA for 1 sec
Sounder/Visual Indicator operating	8.75 mA
Temperature range	32°F to 100°F (0°C to 38°C)
Humidity (no condensation or icing)	10 - 93% RH
Designed to IP Rating	IP21C
Standards and approvals	UL, CSFM
Weight	5.64 oz (160 g)
Dimensions	4.53 in. (115 mm) diameter x 1.5 in. (38 mm) depth
Materials	Housing: White flame-retardant polycarbonate Terminals: Nickel plated stainless steel

Features

The low volume range is useful in areas such as hospitals where a audible signal is initially intended to warn staff only. The sounder is set to the high range for general use.

Synchronization of tones ensures the integrity of the signal - tones from different sounders do not merge into one signal that could be mistaken for a different tone.

Group addressing is a simple method of alerting an entire area or group of rooms without delay.

The acoustic self-test means that the sounder listens to itself when it is switched on. If no sound is detected a fault signal is transmitted when the sounder is polled.

Electrical description

The XP95A Sounder Visual Indicator Base is loop powered so needs no external power supply, operating at 17 V - 28 V dc, it is polarity sensitive.

Addressing

The XP95A Sounder Visual Indicator Base responds to its own address which is set using seven segments of an eight segment DIP switch. The eighth section is used to adjust the volume output.

Group addressing

It may be desirable, in alarm conditions, to switch more than one XP95A Sounder Visual Indicator Base simultaneously. To enable this, devices may be controlled as a group and given a group address which is common to all visual indicator bases in the group.

Note: Group mode is disabled if the group address DIP switch is set to 0000, irrespective of the protocol message.

Self-test

An important feature has been built-in to the XP95A Sounder Visual Indicator Base: when it is switched on it tests itself by checking the actual sound output and flash operation. If no sound is detected within five seconds of the visual indicator base being switched on it will transmit an analog value of 1 (sounder fault) when it is next polled. If no current is drawn by the LEDs an analog value of 2 (beacon fault) is transmitted. If neither element is operating an analog value of 3 (sounder and beacon fault) is transmitted on the next polling.

This self-test feature can also be used during commissioning or periodical maintenance testing. Simply activate the device for at least five seconds and check the control panel for a fault signal. If none is received the XP95A Sounder Visual Indicator Base is working properly.

Synchronization

It is possible to synchronize the sound and flash outputs of all XP95A Sounder Visual Indicator Bases connected to a loop. The method of synchronization depends upon the design and configuration of the fire control panel. Further information should be obtained from the panel manufacturer.

Tones

The XP95A Sounder Visual Indicator Base has two tones:

Alert tone	Frequency - 2900 Hz continuous
Evacuate tone	Frequency - 2900 Hz for 0.5 sec, silence for 0.5 sec - ANSI Temporal pattern

The tones are not set by using the DIP switches, but are set by the fire control panel using command bits 1 and 0 of the protocol. Output command bit 0 controls the Evacuate tone, Output command bit 1 controls the Alert tone. The Evacuate tone overrides the Alert tone.

Volume

The volume range is set using DIP switch 8. The final volume, within its range, is set using the volume control potentiometer.