

VELOX 40320 / 40321

Addressable Loop Powered Sounder Beacon



VERS Technology

Introducing our new range of sounder flashers with ground breaking technology superior to anything seen in this sector of the industry before. Each unit has its own microprocessor controlling the patented VERS (Velox Energy Recovery System) and additionally we have added LED status indication.

The main objectives were for the product range to be safer, have higher performance, yet use less current than other products currently available. Traditional sounders and flashers consume 20-30 mA, and sometimes even more. With an available current of 400mA per loop limits the traditional system so around 15-20 devices per loop maximum.

The NEW Velox sounder flasher range consumes only **2mA** giving you the advantage of installing up to **TWO HUNDRED** on a single Velox addressable loop. More flashers and sounders installed on a single cable, means a safer system with less installation cost

Low current consumption should not compromise performance so the designers in the Velox R&D team designed a brand-new lens to ensure maximum light coverage. The flashers achieve an EN54 compliant coverage of 10 metres by 10 metres with a 106 dBa sound pressure level at 1metre.

Features

- World's lowest compliant flasher current consumption at only 2mA
- 200 Sounders and Flashers can be installed on a single loop
- Patented technology for the Micro power Velox Energy Recovery System (VERS)
- Tri-Colour LED status indication
- Unique lens design giving 10m x 10m EN54 compliant coverage
- 106dB Sounder Output
- 5 Years Manufacturer Guarantee
- Approved to EN54-3(Sounder) and EN54-23 (Beacon)
- Soft & Safe Addressable & Loop Powered
- Automatic & Manual Addressing Features
- In-built short circuit isolator in each device
- Shallow base IP21C and deep base IP65C versions
- Deep base variants independently certified to IP65.
- Features base locking system as standard
- Body colour options available – Red and White

Five Year Guarantee

All the Velox sounders and flashers are covered by the Velox comprehensive **FIVE-YEAR** guarantee.

Status LED

The Velox sounders and flashers have also been made safer with the addition of a status indicating LED. Traditionally the detectors, manual call points and modules on an addressable system have contained a status indicator which blinks to show the devices is healthy. The sounders and flashers are the elements that actually notify the building occupants if there is a fire, so our development team saw it as essential to add this status indicator to increase the safety of the system.

The Velox sounders and flashers all have tri colour LEDs: The LED blinks **GREEN** for healthy, **YELLOW** for Faulty and **RED** for Alarm – This should give occupants even more peace of mind that the devices are working as they should.

Flash Pulse Synchronisation

The Velox Sounders & Flashers are equipped with Flash Pulse Synchronisation feature wherein all the flashers on Fire Detection Loop will flash same time / instance.

If multiple flashers are in the same area then this synchronisation feature makes Flashing aesthetically appealing.

Technology

The sounder output has four different tones which offer flexibility in programming sound alerts for evacuation. The outputs of groups of sounders can be synchronized from the control panel for simplifying cause & effect programming.

The operational status of the sounder beacon is indicated on the fire alarm control panel. This allows an operator to receive notifications of sounder faults, deactivation or silencing of sounders, and so on. The sounder beacon can be disabled and reactivated from the control panel.

Applications

The Velox 4132x Series Integrated sounder-beacon or Beacon is an addressable audio visual output device installed on the fire alarm panel loop to issue both flashing and sound alerts in case of fire or emergency situations.

The 4032x Series has deep base versions is a weather-proof model of the audio-visual sounder, designed for installation in humid and outdoor areas.

The sounder-beacon is powered from the fire panel loop that interconnects control panels, detectors, call points and other devices. Four inbuilt tones and sound

output ranging from 80dBA to 106 dBA make the sounder ideal for multistage evacuation procedures.

The sounder-beacon is activated by a specific command sent from the fire alarm control panel. Communication is established via the ATEİS Variable Time Communication (VTC) protocol.

Architectural & Engineering Specifications

The unit must be the ATEİS model 41320 & 40321 addressable Intelligent Sounder cum Flasher. Up to 240 devices can be connected on the same detector loop based on the load factor.

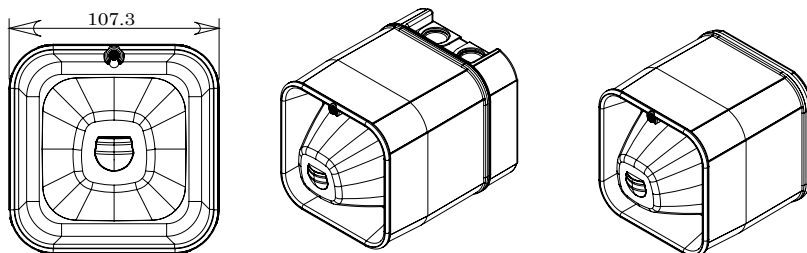
The intelligent addressable Sounder Flasher shall be equipped with the latest state of the art microprocessor which shall control the communication and monitoring of the software and hardware of the unit. The VTC "Variable Time Communication" protocol from ATEİS shall allow the safe and fast communication between the Waterproof Sounder and the Fire Alarm Control Panel.

The unit should be equipped with micropower technology & shall be highly efficient i.e. low power consuming. The unit shall consume not more than 2 mA current. The flashers should support fully synchronised flashing.

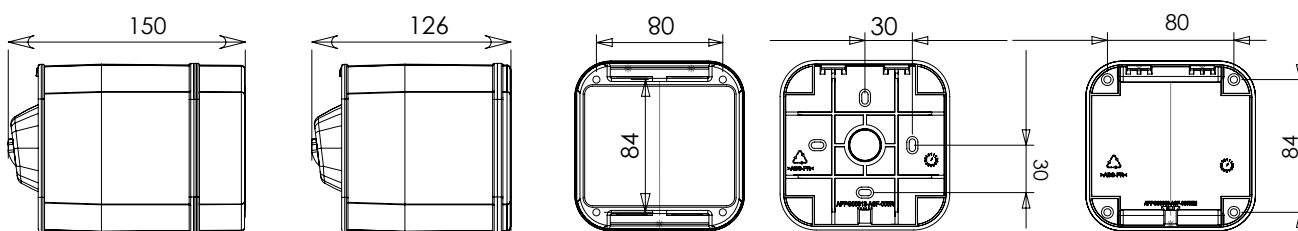
The unit shall be equipped with 3 colour Status LED for Indicating Healthy, Alarm & fault conditions.

The unit shall be available in Indoor & Outdoor versions based on the application. The units shall be available in White & Red body options.

General Overview & Dimensions



Picture 1 - General overview of the device



Picture 2 - Dimensions

Technical Specifications

Item	Specification Details
Power Supply	The device is powered over the loop
Standby current consumption	70 uA (typical)
Alarm current consumption	2 mA (at standard protocol supply)
Sound output volume (adjustable)	85 dB (A) - 98 dB (A)
Humidity	5-85% RH (no condensation)
Operating temperature range	-10° C / +55° C
IP rating	IP 21C (indoor)
Maximum wire gauge	1.5 mm ²
Flash Rate	0.5 / 1 Hz
Flash Intensity	75-140 cd
Material	ABS Fire Retardant Plastic
Number of Tones	4

Order Codes

Part No.	Description
40320	Velox Addressable Sounder cum Strobe
40321	Velox Addressable Sounder cum Strobe, Weatherproof