

## SOUNDER BASES AND SOUNDER BEACON BASES

### Intellia Sounder Bases and Sounder Beacon Bases

The Sounder Base and Sounder Beacon Base are a local-area alarm devices designed for indoor use. They can be connected only to detection systems using Intellia detectors and FX control panels with appropriate software.

The Intellia series of products are all compatible with the ALC-board of an FX-panel.

### Ancillary Base Sounder ESI-10

The Ancillary Base Sounder is a local-area sounder designed for indoor use. It can be connected only to detection systems using Intellia detectors and FX control panels with appropriate software.

The sounder incorporates a base into which a loop powered beacon or an Intellia detector is fitted. It is powered by the control panel via the loop wiring to which it is connected. Since the sounder is switched by the remote indicator output of the associated detector or beacon no remote indicator facility is available.

A guaranteed sound output of 85 dB(A) at 1 meter is achieved at a current consumption of only 3 mA. The sounder generates very low current noise so that up to 126 sounders may be connected to a loop.

In order to determine the exact number in a loop please use the Loop Calculator program.

### Electrical considerations

The Ancillary Base Sounder ESI-10 is loop-powered and requires no external power supply. It operates at 17 – 28 VDC.



*Ancillary Base Sounder*

### Tone frequency and volume control

The sounder produces an uninterrupted alternating tone of 990 Hz for 0,5 seconds and 630 Hz for 0,5 seconds. The volume control can be used to adjust the sound steplessly from 70 dB(A) to 85 dB(A). It should be noted that these sounders do not have a synchronisation feature or pulsed tone.

### Addressing

The Ancillary Base Sounder responds to signals from the associated detector or beacon. It does not have an address of its own.

### Integrated Base Sounders ESI-20 and ESI-30

The sounders offer:

- two tone ranges 55 – 75dB and 75 – 91 dB
- synchronisation of 'alert' and 'evacuate' tones
- individual and group addressing
- available with or without built-in isolator
- unique acoustic self-test
- short circuit isolator (ESI-20)

The low tone range is useful in areas such as hospitals where a fire alert is initially intended to warn staff only. The sander is set to the high range for general use.

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

#### Addressing

The integrated base sander responds to its own individual address set with a DIL switch.



*Integrated Base Sounder*

### Integrated Sounders Beacon Bases ESI-60 and ESI-70

The Loop-powered Sounder Beacon Base combines a sander with a beacon and a detector base in one unit. The beacon is activated whenever the sander is active and cannot be controlled separately.

The Loop-powered Sounder Beacon Base

With short circuit isolator has a yellow LEB which illuminates through the moulding if a short circuit is detected on the loop wiring.

The products offer:

- two tone ranges 55 – 75 dB and 75 – 91 dB
- individual and group addressing
- available with or without built-in isolator
- unique acoustic self-test
- short circuit isolator (ESI-60)

The low tone range is useful in areas such as hospitals where a fire alert is initially intended to warn staff only. The sander is set to the high range for general use.

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

#### Addressing

The integrated base responds to its own individual address set with a DIL switch.

## Technical data

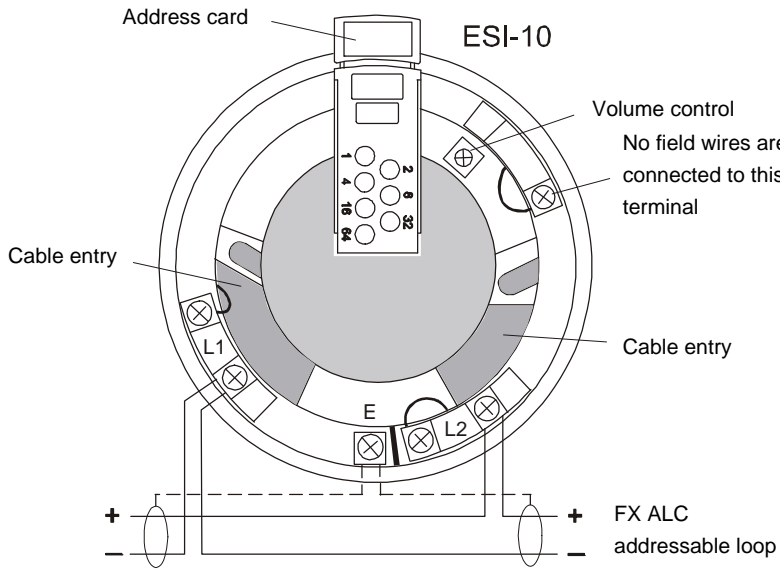
Sounder	Ancillary Base Sounder ESI-10	Integrated Base Sounder ESI-20, ESI-30	Integrated Sounder Beacon Bases ESI-60, ESI-70
Description	The Ancillary Base Sounder responds to signals from the associated detector or beacon. It does not have an address of its own.	Individual address is set with DIL switch.	Individual address is set with DIL switch.
Operating voltage	17 – 28 VDC (polarity sensitive)		
Protocol pulses	5 – 9 V		
Current consumption at 24 VDC quiescent sounder operated	<100 µA 3 mA	<1,2 mA 5 mA	<300 µA 8 mA
Sound pressure level at 1m	85 dB(A)	55 - 78 dB, 75 - 91 dB	
Frequency	990 Hz for 0,5 s, 630 Hz for 0,5 s		
IP Rating	IP23D (to BS EN 60529:1992)	IP21D (standard version)	
Operating temperature	-20 °C to +60 °C		
Max. relative humidity (no condensation)	0 – 95 %		
Dimension (diameter x height)	115 x 38 mm		
Weight	140 g		
Material	Polycarbonate		
Contacts	Stainless steel	Stainless steel Solid or stranded cables max. 2,5mm <sup>2</sup>	
Colour	White		
Fixing centres	50–60 mm		
Product codes	ESI-10: 0672 8010	ESI-20: 0672 8020 (short circuit isolator) ESI-30: 0672 8030 (no isolator)	ESI-60: 0672 8060 (short circuit isolator) ESI-70: 0672 8070 (no isolator)

Installation Accessories	Product code
Spacer for surface installation	0672 8093
Red cap	0672 8091
White cap	0672 8092

Pelco reserves the right to modifications.

**Schematic Diagram & Wiring Connections**

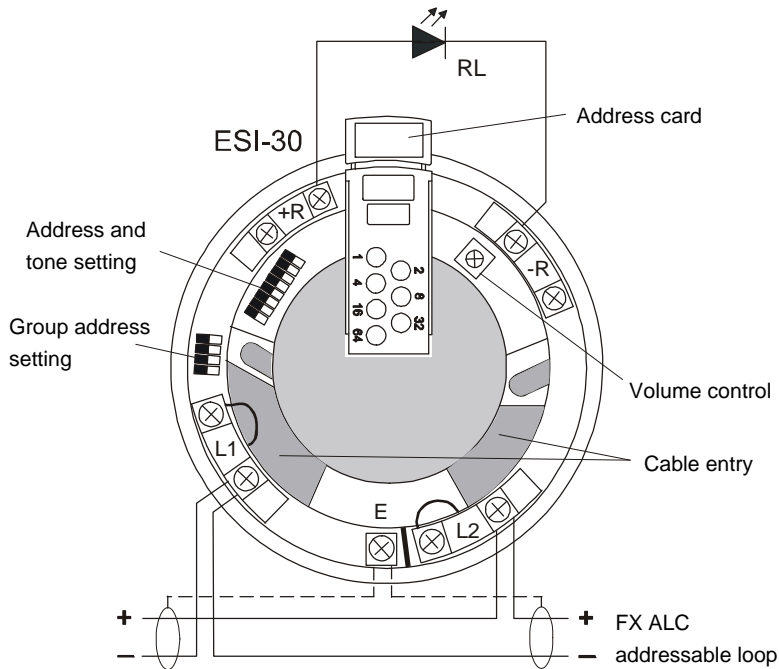
**Ancillary Base ESI-10**



L1 = Loop –  
 L2 = Loop +  
 E = Earth (screen) continuity terminal

**Note!**  
 L1 and L2 are polarity sensitive.

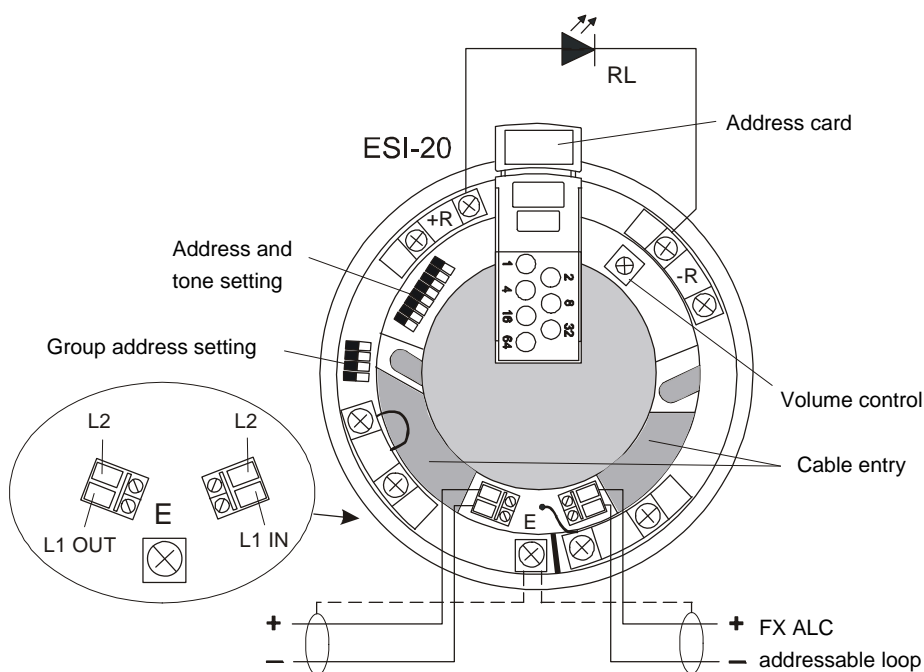
Integrated Base Sounders ESI-30 and ESI-20



L1 = Loop –  
 L2 = Loop +  
 E = Earth (screen) continuity terminal  
 +R = Remote LED +  
 -R = Remote LED –

RL = Remote LED

**Note!**  
 L1 and L2 are polarity sensitive.

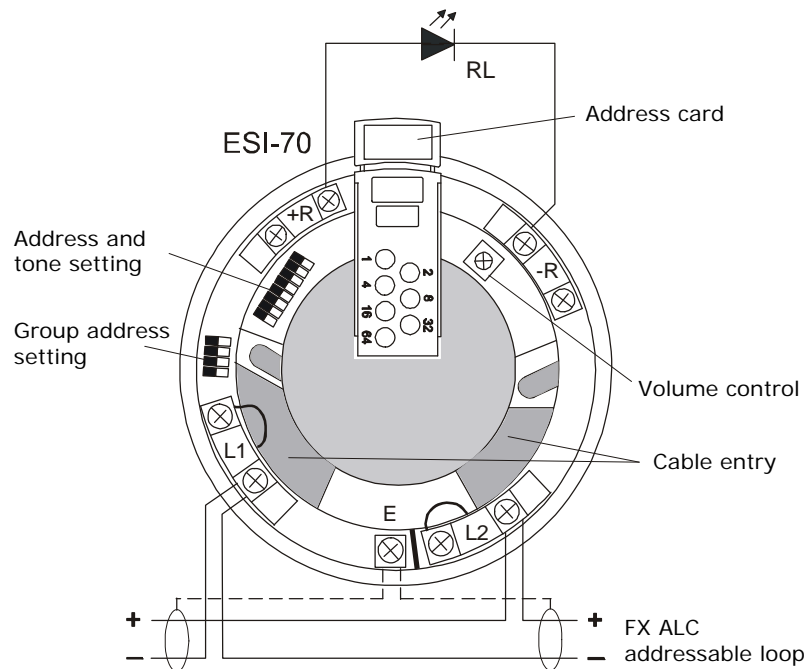


L1 OUT = Loop – out  
 L1 IN = Loop – in  
 L2 = Loop +  
 E = Earth (screen) continuity terminal  
 +R = Remote LED +  
 -R = Remote LED –

RL = Remote LED

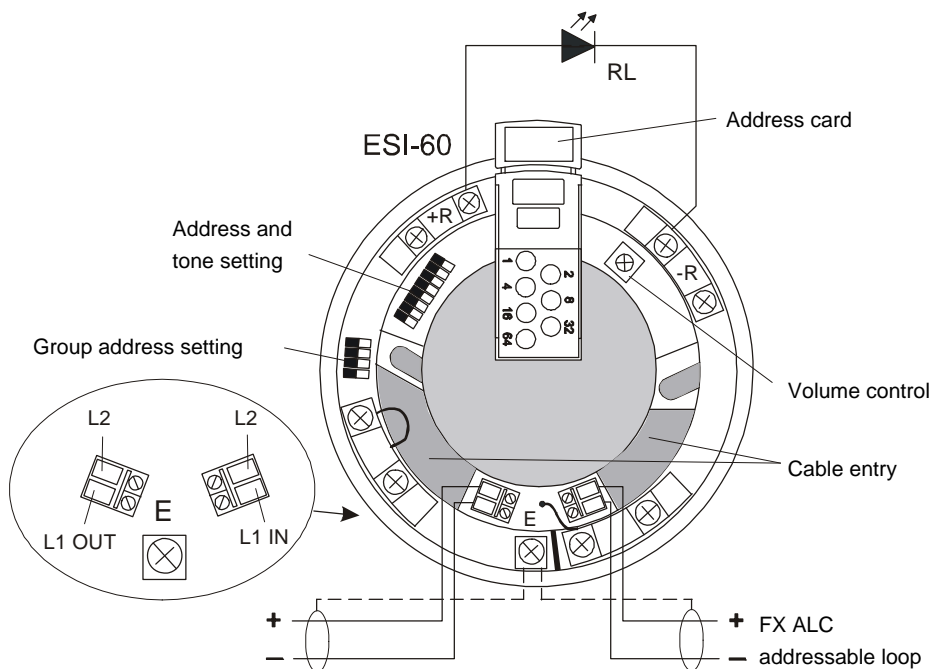
**Note!**  
 L1 and L2 are polarity sensitive.

Integrated Sounders Beacon Bases ESI-70 and ESI-60



L1 = Loop –  
 L2 = Loop +  
 E = Earth (screen) continuity terminal  
 +R = Remote LED +  
 -R = Remote LED –  
 RL = Remote LED

**Note!**  
 L1 and L2 are polarity sensitive.



L1 OUT = Loop – out  
 L1 IN = Loop – in  
 L2 = Loop +  
 E = Earth (screen) continuity terminal  
 +R = Remote LED +  
 -R = Remote LED –  
 RL = Remote LED

**Note!**  
 L1 and L2 are polarity sensitive.