6000 System Sounder Installation and Commissioning Instructions

Overview

The Protec 6000 System Sounder is an approved audible device which provides an audible output in the event of a fire condition.

Technical Specification

Loop protocol	6000/6000PLUS	
Loop isolator fitted	Yes, on board (Refer to DEL2110 for details)	
Loop operating Voltage range	18 to 28 V peak loop	
Number of loop addresses used	1	
Loop quiescent current (24 V average)	0.65 mA	
Loop alarm current (24 V average)	4.50 mA	
Sounder frequencies	Approved Tones to EN54-3	Tones outside the scope of EN54-3
	Continuous 880 Hz	Bell 800 Hz
	Warble 665 Hz to 880 Hz	
	Dutch Whoop 500 Hz to 1500 Hz (NEN2575)	
Sounder synchronisation	Sounder synchronisation is achieved by panel control	
Sound pressure level SPL	Refer to polar diagrams below.	
EN54-3 approved **minimum** sound output at 1m [Horizontal & Vertical]	81 dB	
Cable type and characteristics	Refer to panel 'Installation and Commissioning Manual'	
Operating / storage temperature range	-10 to 50 °C (no condensation or icing)	
Humidity	0% to 95% relative Humidity (no condensation or icing)	
Environmental Rating	Type B (IP33C)	
Dimensions (mm)	114 (width) x 114 (height) x 77 (depth)	
Indications	On-board indicating LED	
Material	Casing made from red or white ABS to UL94-V0 flammability rating	
Weight	250 g (Including standard mounting base)	
Compatible Bases		
Red–N 30-027-26, White–N 30-026-25	Standard mounting base (Marking Number – 500 1019)	
Red–N 29-982-25, White–N 29-983-26	Deep recess mounting base (Marking Number – 500 1015)	

Installation

1. Ensure tests are carried out on the cabling using a 500V dc insulation tester (Megger®). The readings between each cable core, and each core and earth (screen) should be greater than 10MΩ. **Ensure that all cabling is completely discharged before connecting to the 6000 System Sounder**.
2. Remove the sounder module from the base. Store in the product carton whilst fixing the product base to the wall, taking care not to over tighten any screws
3. Run cabling into the base and connect the incoming series 6000 loop to the terminals marked + and –. The outgoing series 6000 loop must be connected to the remaining + and – terminals. Where screened cables are used it is important to ensure that screen continuity is maintained between cable segments. Ensure bare screen leads are sleeved and that screws are not over tightened.
4. Replace the sounder module ensuring no wires foul the assembly. When attaching the product to its base ensure the 'o'-ring seal is in position to correctly seal the product.
5. For weather proofing all cable entry points and screw fixing points must be sealed at installation.
6. If anti-tamper is required ensure locking screw provided is placed into locking slot on installation base.

Commissioning

1. Each 6000 System Sounder has a unique serial number which will be used as part of the commissioning of the fire alarm system. It is necessary to remove one of the 'peelable' bar code labels present on the product and place it in the commissioning booklet supplied with each Protec addressable control panel. The bar code sticker should be placed at the relevant loop and address position intended for the 6000 System Sounder. It is important that serial numbers are not mixed otherwise the addressing of the 6000 System Sounder will be incorrect when commissioned.
2. Commission the device onto the system as detailed in the installation and commissioning manual for the fire alarm panel being used.

Maintenance

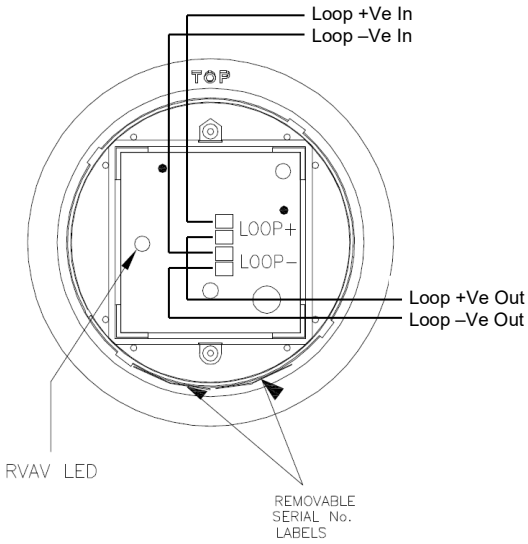
1. No regular device maintenance is required. Please refer to panel manual for system testing requirements.

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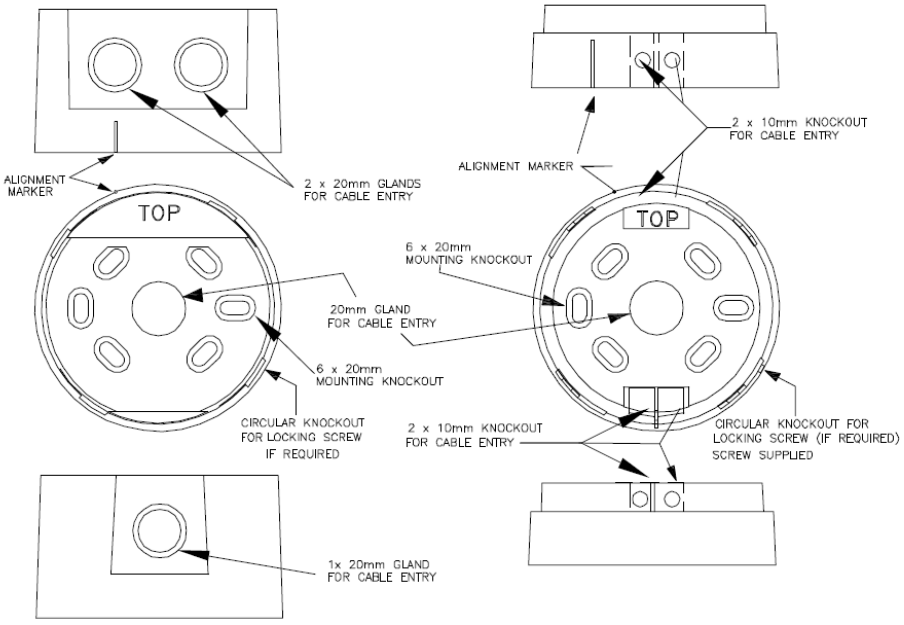
6000 System Sounder Certification Details

CE 0905	UKCA 0359
15	**23**
Protec Fire Detection PLC, Protec House, Churchill Way, Nelson, Lancashire, BB9 6RT, United Kingdom	
PFD-CPR-0118 6000/SSR2 PFD-CPR-0119 6000/SSW2 PFD-CPR-0120 6000/SSR2/NL PFD-CPR-0121 6000/SSW2/NL	PFD-UKCA-0118 6000/SSR2 PFD-UKCA-0119 6000/SSW2 PFD-UKCA-0120 6000/SSR2/NL PFD-UKCA-0121 6000/SSW2/NL
EN54 – 17: 2005 Short Circuit Isolator 6000/SSR2 6000/SSW2 6000/SSR2/NL 6000/SSW2/NL Refer to Protec DEL2110 for Technical Data	EN54 – 3: 2001 Sounder Devices 6000/SSR2 6000/SSW2 6000/SSR2/NL 6000/SSW2/NL Technical Data included in this datasheet

6000 System Sounder wiring details



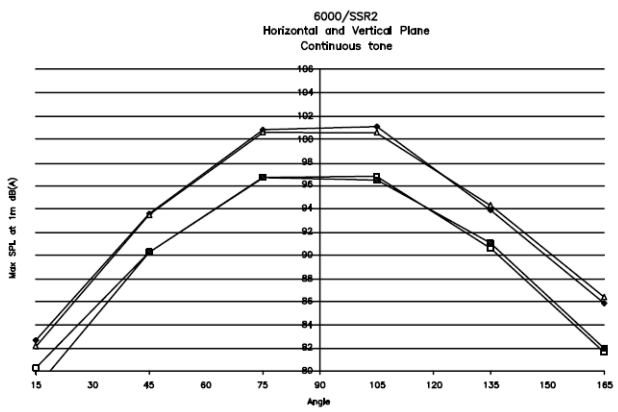
Installation Base Details

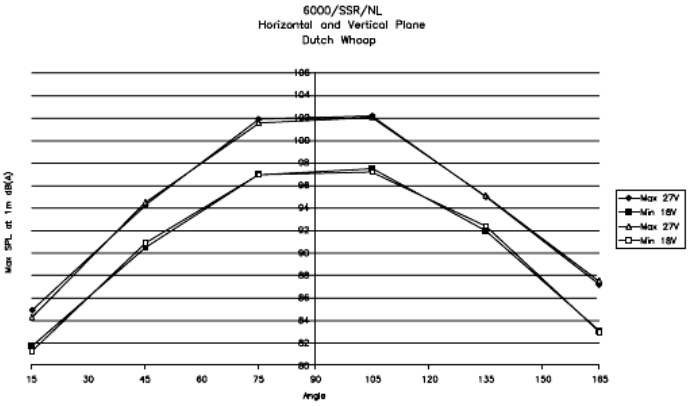


Deep recess mounting base details

Standard mounting base details

Sounder Polar Outputs and Profiles





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