

Technical Data XP95A Detectors

Detector Model No	SA5050-250APO	SA5050-350APO	SA5500-450APO
Detector Type	XP95A Smoke Detector	XP95A Multi-Criteria Detector (Smoke/Heat)	XP95A Heat Detector
Equivalent Obsolete Dectector	55000-650	55000-886	55000-450
UL Listed Voltage	17 - 28 V dc	17 - 28 V dc	17 - 28 V dc
Modulation Voltage (V peak to peak)	5 - 9 V	5 - 9 V	5 - 9 V
Maximum Alarm Current LED on*	4 mA	4 mA	2.5 mA
Surge Current*	1 mA	1 mA	1 mA
Supervisory Current*	340 µA	500 µA	250 µA
Additional Remote LED Current*	5 mA	5 mA	5 mA
Heat Element Rating	N/A	Rate of Rise (RoR) 20°F/min (11°C/min)	131°F (55°C)
Sensitivity	UL 1.23%/Ft -2.09%/Ft ULC 1.44%- 2.3%/Ft	UL 1.23%/Ft -2.09%/Ft ULC 1.44%- 2.3%/Ft	N/A
UL/ULC Instruction	Smoke-automatic fire detector for use with a S5022 UL/ULC listed base	Smoke-automatic fire detector head with integral heat detector for use with a S5022 UL/ULC listed base	Heat-automatic fire detector for use with a S5022 UL/ULC listed base
Test Method	Please refer to the panel manufacturer instructions Spray with any of the following smoke products: • Solo Detector Testers Solo A10 • Smoke Sabre Smoke Detector Tester • Solo Detector Testers Solo 365 • Solo Detector Testers Testifile		Hair Dryer
Control Panel	Refer to www.apollo-fire.co.uk for compatible panels		

Technical Data Soteria UL Detectors

Detector Model No	SA5150-650APO**	SA5150-750APO**	SA5800-450APO
Detector Type	Soteria UL Smoke Detector	Soteria UL Multi-Criteria Detector (Smoke/Heat)	Discovery/Soteria UL Non-isolating Heat Detector
Equivalent Obsolete Dectector	58000-650	58000-750	58000-450
UL Listed Voltage	17- 28 V dc	17 - 28 V dc	17- 28 V dc
Modulation Voltage (V peak to peak)	5 - 9 V	5 - 9 V	5 - 9 V
Maximum Alarm Current LED on*	4 mA	4 mA	3.5 mA
Surge Current*	1 mA	1 mA	1 mA
Supervisory Current*	500 µA	500 µA	500 µA
Additional Remote LED Current*	5 mA	5 mA	5 mA
Heat Element Rating	N/A	Modes 1,3,4 Rate of Rise (RoR) 20°F/min (11°C/min). Mode 5 135°F (57°C)	135°F (57°C) - 210°F (99°C)
Sensitivity	As SA5050-250APO	As SA5050-350APO	N/A
UL/ULC Instruction	Smoke-automatic fire detector for use with a S5022 UL/ULC listed base	Smoke-automatic fire detector head with integral heat detector for use with a S5022 UL/ULC listed base	Heat-automatic fire detector for use with a S5022 UL/ULC listed base
Test Method	Please refer to test methods in the table above		
Control Panel	Refer to www.apollo-fire.co.uk for compatible panels		

* All current measurements made with polling off **Isolation feature is only available in SA5150-650APO and SA5150-750APO



XP95A & Soteria UL 268 7th Edition Detectors Installation Instructions

General

These instructions apply to the Apollo Soteria UL Bases. Please refer to the table below for instructions on how to install:

Applicable Wiring Diagram (page 3)	Applicable Products
Fig. 1 - New Installs (supports isolation)	SA5000-210 – Soteria UL Base - 4" SA5000-230 – Soteria UL Base - 6"
Fig. 2 - Retrofits or Isolator bypassed with a Remote LED	SA5000-210 - Soteria UL Base - 4" SA5000-230 - Soteria UL Base - 6"
Fig. 3 - Retrofits or Isolator bypassed with a Common Remote LED	SA5000-210 - Soteria UL Base - 4" SA5000-230 - Soteria UL Base - 6"

Installation

These products must be installed in accordance with the applicable NFPA standards, local codes and jurisdictional authorities. Failure to follow these instructions may result in failure of the detectors to report an alarm condition. Apollo Fire Detectors Limited is not responsible for detectors which are improperly installed, maintained or tested.

Before installing these products, check the continuity, polarity and insulation resistance of all wiring. Check that installation is in accordance with the fire system drawings and conforms to all applicable local codes such as NFPA 72.

Use 3" octagonal box for direct connection to the base. 4" octagonal and 4" square boxes may be used with compatible UL listed mounting brackets. When mounting on a wall, install 4" to 12" from the ceiling. Secure the base to the electrical box with appropriate screws.

Do not overtighten the screws. For information on how to set the address of each device correctly refer to the section 'XPERT 8 Card Addressing' overleaf.

If you are using shielded cable, please follow the instructions below:

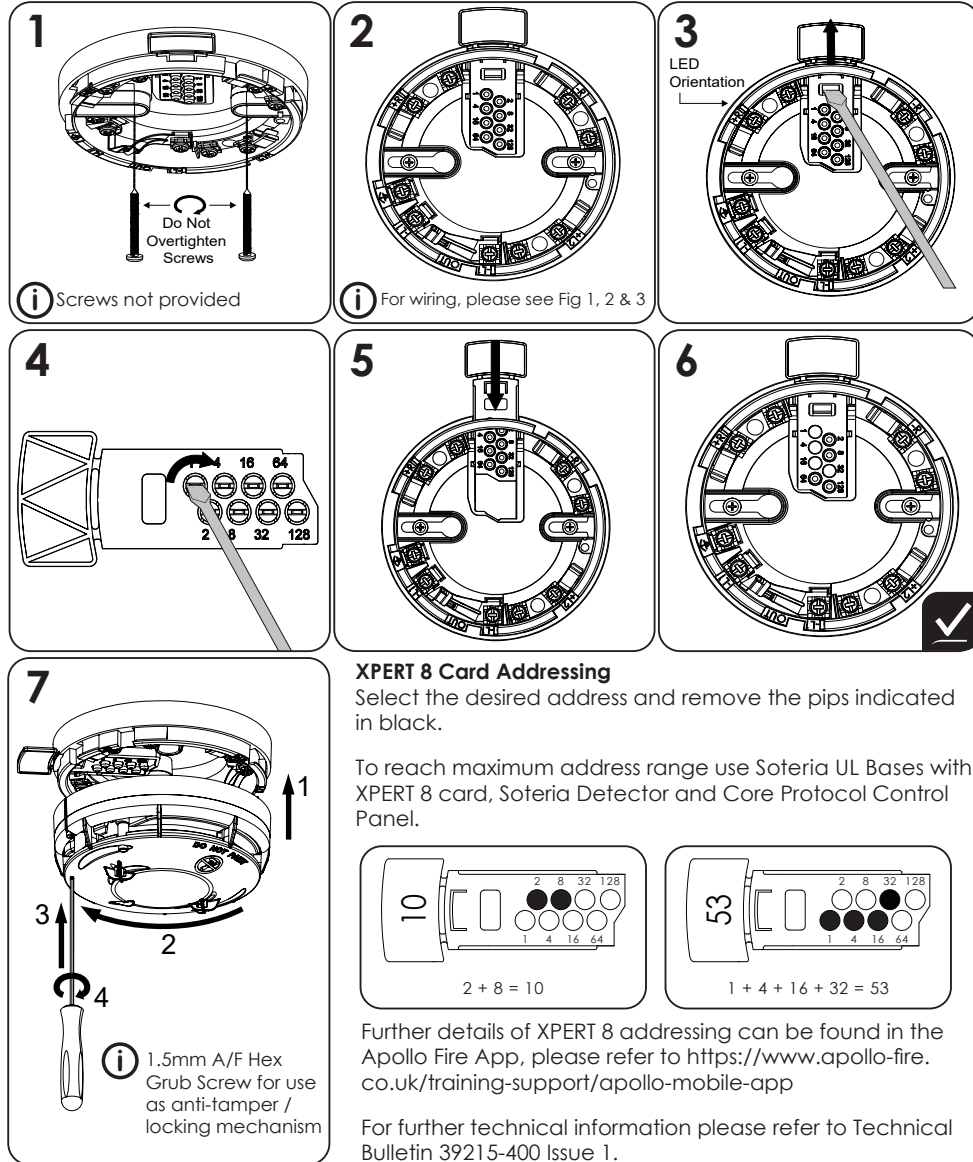
1. Connect the shield to the ⏏ terminal on the base.
2. When shielded loop cable is used, connection of the shield, also known as the functional earth (FE), must be terminated in accordance with the control panel manufacturer's recommendations and local codes.
3. Unless instructed otherwise, ensure that all segments of the loop cable has functional earth (FE) continuity and take care that it is isolated from building earth (also known as protective earth (PE)) points such as metalwork, cable trays or junction boxes.

PLEASE NOTE:

Smoke detectors are NOT to be used with detector guards.

During construction work it is essential that the detector has its dust cover fitted. The build-up of dust inside a detector can lead to a trouble signal or false alarm.

Installation Diagram



Wiring

CAUTION: Do not use looped wire under wiring terminals. Break wire run to provide supervision of connections. Terminals L1 and L2 are polarity sensitive. It is recommended the wiring be no smaller than 18AWG (0.8mm²). Wire sizes up to 14 AWG (3.3mm²) may be used.

Warning: Check the base compatibility before installing
Check the polarity for Soteria UL detector installation

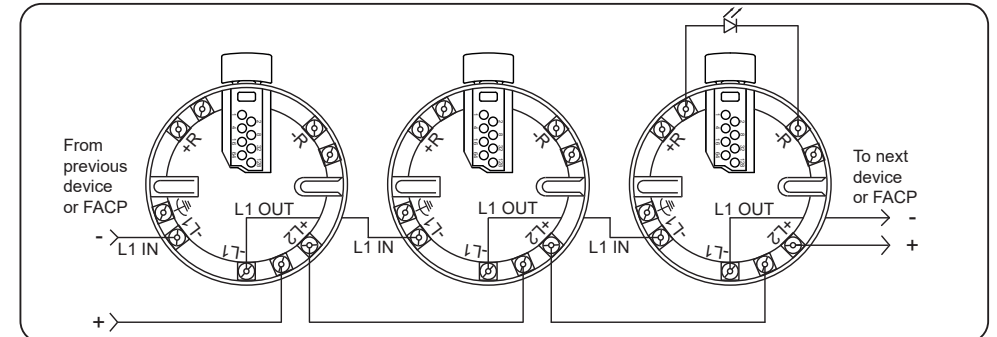


Fig. 1 Schematic Wiring Diagram: Soteria UL Base wiring with remote LED connection. To be used with new installs for XP95A and Soteria UL detectors

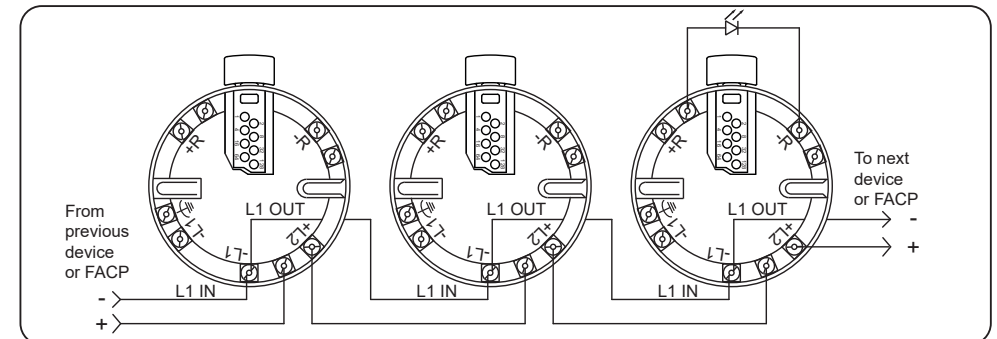


Fig. 2 Schematic Wiring Diagram: Soteria UL Base Detector to bypass isolator with remote LED connection. To be used in a retrofit application for the older version of XP95A or Discovery UL product. Can also be used when the isolator feature is not required

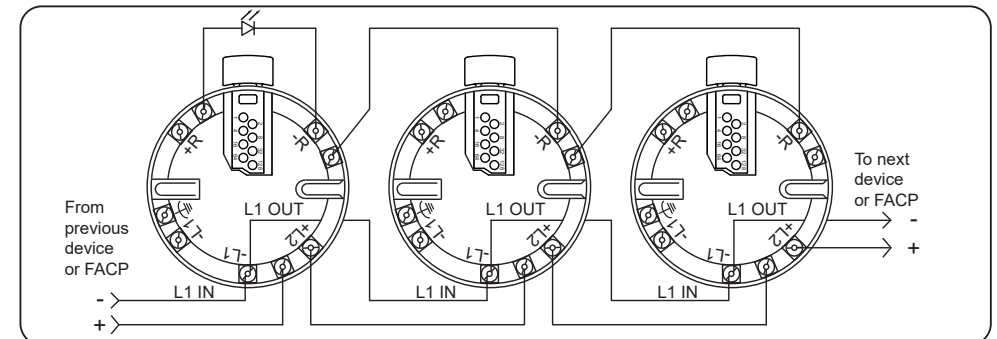


Fig. 3 Schematic Wiring Diagram: Soteria UL Base to bypass isolator with a Common Remote LED. To be used in a retrofit application for the older version of XP95A or Discovery UL product. Can also be used when the isolator feature is not required