



Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

Equipment Model Designations: Detectors

Soteria UL Models SA5150-650 [Optical, Smoke], SA5150-750 [Optical, Smoke/Heat], XP95A Models SA5050 -250 [Smoke], SA5050-350 [Optical Smoke/Heat], SA5500-450 [Heat], SA5800-450[Heat] Bases SA5000-210, SA5000-225 and SA5000-230. 55000-450[Heat] and 58000-450[Heat]

Approval Guide Listing Category: 3230, 3210

Electrical Signaling Alarm Signal Initiating Devices Fire Detection, Smoke-Actuated Fire Detectors-Smoke
Electrical Signaling Alarm Signal Initiating Devices Fire Detection, Heat-Actuated Fire Detection, Heat-Actuated

Apollo Fire Detectors Ltd
36 Brookside Rd
Havant
Hampshire, PO9 1JR
United Kingdom

This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s), of the following FM Approval Standards and other documents:

<i>Approval Standards</i>		<i>Other Standards</i>	
<i>Class Number</i>	<i>Date</i>	<i>Organization, Designation</i>	<i>Date</i>
3230	2020		
3210	2021		

Original Approval Job Identification: PR454681

Approval Granted: 7 July 2021

Subsequent Revisions: RR231270, RR232270, RR233167

To verify the availability of the Approved product, please refer to www.approvalguide.com

J.E. Marquedant
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FM Approvals
1151 Boston-Providence Turnpike,
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19 August 2022

Date



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☒ Electrical Signaling ☒ Alarm Signal Initiating Devices ☒ Fire Detection, Smoke-Actuated ☒ Fire Detectors-Smoke

Sensor models Soteria UL
 SA5150-650 [Optical, Smoke],
 SA5150-750 [Optical, Smoke/Heat] with 5 Multi modes*;
 XP95A SA5050 -250 [Smoke],
 SA5050-350 [Optical Smoke/Heat].

The sensors include drift compensation to monitor for contamination of the optical assembly. Drift compensation is carried out by the processing algorithms which maintain the clean air analog level and smoke sensitivity until the limit of compensation has been reached. The amount of compensation is monitored via the SLC.

*The Soteria multiple modes are:
 Modes 1, 3 and 4 – Multi-Criteria response
 Mode 2 - Optical only response
 Mode 5 - Heat only response

Compatible Fire Alarm Control Panels	FM Approved Apollo Fire Alarm Control Panels
Compatible Bases	SA5000-210 Soteria UL Base – 4in. SA5000-225 Soteria UL Base – 6in. SA5000-230 Soteria UL Base - 6in
Communications and Power	XP95A, Discovery/Core protocol over Signaling-Line Circuit (SLC)
Sensitivity range	1.23%/ft. to 2.09%/ft.
Maximum spacing	Standard, 4.5m x 4.5m (15ft. x 15ft.)ft to 60ft)
Operating voltage range	17 to 28Vdc (24Vdc nominal)
Operating temperature range	0° to 37.8°C
Maximum humidity	93% RH, non-condensing
Power consumption	Standby: 340uA, Alarm: 4mA (LED on)
Reset Time/Start-up Time	0.5 sec/10 sec
Transmission method	XP95A, Discovery/Core protocol
Enclosure/Use	Indoor, dry use only
Software rev.	34000-159 Rev T



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Alarm Signal Initiating Devices, Fire Detection, Heat-Actuated

Electrical Signaling Alarm Signal Initiating Devices Fire Detection, Heat-Actuated Fire Detection, Heat-Actuated

XP95A Model SA5500-450

XP95A Model SA5500-450 Addressable Fixed heat detectors. RTI classification is STANDARD with a 15 x 15 ft (4.5 x 4.5 m) spacing.

Compatible Fire Alarm Control Panels	FM Approved Apollo Fire Alarm Control Panels
Compatible Bases	SA5000-210 Soteria UL Base – 4in. SA5000-225 Soteria UL Base – 6in.

Alarm Signal Initiating Devices, Fire Detection, Heat-Actuated

Electrical Signaling Alarm Signal Initiating Devices Fire Detection, Heat-Actuated Fire Detection, Heat-Actuated

Discovery / Soteria UL Model SA5800-450

Discovery / Soteria UL Model SA5800-450 Addressable Rate Compensated heat detectors. RTI classification is FAST with a 25 x 25 ft (8 x 8 m) spacing.

Compatible Fire Alarm Control Panels	FM Approved Apollo Fire Alarm Control Panels
Compatible Bases	SA5000-210 Soteria UL Base – 4in. SA5000-225 Soteria UL Base – 6in.

Alarm Signal Initiating Devices, Fire Detection, Heat-Actuated

Electrical Signaling Alarm Signal Initiating Devices Fire Detection, Heat-Actuated Fire Detection, Heat-Actuated

Model 55000-450 XP95A Addressable Heat Detector

PR454681CoC

Models	Description	Project ID
XP95A Model 55000-450	Addressable Fixed heat detectors. RTI classification is STANDARD with a 15 x 15 ft (4.5 x 4.5 m) spacing.	PR454681
Used with Base Models:		
45681-210	Standard Detector Bases	3057702



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45681-225	Standard Detector Bases	3057702
45681-250	Standard Detector Bases	3057702
45681-284	Isolating Base	3057702

Must be used with FM Approved compatible fire alarm control panel. (See Local Protective Signaling for control panel listings).

Alarm Signal Initiating Devices, Fire Detection, Heat-Actuated

Electrical Signaling Alarm Signal Initiating Devices Fire Detection, Heat-Actuated Fire Detection, Heat-Actuated

58000-450 Addressable Rate Compensated heat detectors PR454681CoC

Models	Description	Project ID
58000-450	Addressable Rate Compensated heat detectors	PR454681
Used with Base Models:		
45681-210	Standard Detector Bases	3057702
45681-225	Standard Detector Bases	3057702
45681-250	Standard Detector Bases	3057702
45681-284	Isolating Base	3057702

Must be used with FM Approved compatible fire alarm control panel. (See Local Protective Signaling for control panel listings).



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