Series 65 ://shop.comsec.ie

Heat Detector



Product overview					
Product	Heat Detector A1R standard				
Part No.	55000-122				
Product	Heat Detector A1R with flashing LED				
Part No.	55000-121				
Product	Heat Detector BR standard				
Part No.	55000-127				
Product	Heat Detector BR with flashing LED				
Part No.	55000-126				
Product	Heat Detector CR standard				
Part No.	55000-132				
Product	Heat Detector CR with flashing LED				
Part No.	55000-131				
Product	Heat Detector CS standard				
Part No.	55000-137				
Product	Heat Detector CS with flashing LED				
Part No.	55000-136				



Note:* Not all detectors have all approvals. Refer to the product pages at www.apollo-fire.co.uk

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Supply Wiring Two wire monitored supply, polarity

insensitive

Terminal functions L1 IN Supply in connections

and L2

L1 OUT Supply out connections

and L2

-R Remote indicator negative

connection

Supply voltage 9 V to 33 V

Ripple voltage 2 V peak to peak maximum at 0.1 Hz to

100 kHz

Quiescent current See Table 1

Power-up surge current as per Quiescent current

Alarm voltage 6 V to 28 V dc
Alarm current See Table1

Alarm indicator Red light emitting diode

Design alarm load 420 Ω in series with a 2 V drop

Holding voltage 6 V
Holding current 10 mA
Minimum voltage required to 12 V

light alarm indicator

Remote output Remote is a current sink to the negative

 characteristics
 line limited to 17 mA

 Storage temperature
 $-30^{\circ}\text{C to} + 80^{\circ}\text{C}$

 Operating temperature
 A1R: $-20^{\circ}\text{C to} + 50^{\circ}\text{C}$

 BR: $-20^{\circ}\text{C to} + 65^{\circ}\text{C}$

CS/CR: -20°C to +80°C ensation 0% to 95% RH

Humidity (no condensation

or icing)

Effect of atmospheric None

pressure

Designed to IP Rating IP54

Standards and approvals CPR, LPCB, VdS, VNIIPO, SBSC, FG,

BOMBA

Dimensions 100mm diameter x 42 mm height

Weight 80 g

Materials Housing: White flame

retardant polycarbonate

Terminals: Nickel plated stainless steel

Product information

The Series 65 Heat Detectors monitor temperature by using either a dual thermistor network or a single thermistor network (CS versions) which provides a voltage output proportional to the external air temperature.

- Ideal for environments that are dirty or smoky under normal circumstances
- Can be used for applications where smoke detectors are unsuitable
- Wide operating voltage

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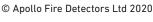
Email: sales@apollo-fire.com Web: www.apollo-fire.co.uk All information in this document is given in good faith but Apollo Fire Detectors Ltd cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.













Operation

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The Series 65 Heat Detector has a moulded self-extinguishing white polycarbonate case. Inside the case a printed circuit board (PCB) holds the signal processing electronics.

In the A1R, BR and CR variants a pair of matched negative temperature co-efficient (NTC) thermistors are mounted on the PCB in such a way that one thermistor is exposed to give good thermal contact with the surrounding air while the other thermistor is thermally insulated.

Under stable conditions both thermistors are in thermal equilibrium and have the same value of resistance. If air temperature increases rapidly the resistance of the exposed thermistor becomes less than that of the insulated thermistor. The ratio of the resistance of the thermistors is monitored electronically and an alarm is initiated if the ratio exceeds a factory pre-set level. This feature determines the 'rate of rise' response of the detector.

CS variants use a single NTC thermistor network which as in dual versions provides a voltage output proportional to the external air temperature.

The Series 65 Heat Detector complies with the essential requirements of the EMC Directive 204/30/EU, provided that it is used as described in this data sheet.

A copy of the Declaration of Conformity is available from Apollo upon request.

Conformity of the Series 65 Heat Detector with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation 305/2011/EU

The Series 65 Heat Detector complies with the essential requirements of the Construction Products Regulation 305/2011/EU.

A copy of the Declaration of Performance is available from Apollo upon request.

Table 1: Series 65 Heat Detector typical current against voltage characteristics for quiescent and alarm state

Supply voltage (V)	A1R Standard		A1R flashing LED		A1R flashing LED/magnetic test switch	
	Quiescent	Alarm	Quiescent	Alarm	Quiescent	Alarm
24	45 µA	52 mA	55 μΑ	52 mA	55 μΑ	52 mA
9	40 µA	17 mA	50 μΑ	17 mA	50 μΑ	17 mA

Series 65 Heat Detector temperatures and part numbers								
Class	Max application temperature °C	Max static response temperature ^o C	Part Number					
			Standard	Flashing LED				
A1R	50	65	55000-122	55000-121				
BR	65	85	55000-127	55000-126				
CR	80	100	55000-132	55000-131				
CS	80	100	55000-137	55000-136				

