



ANALOGUE ADDRESSABLE MULTI SENSOR DETECTOR iQ568D-S

Description

iQ568D analogue addressable photoelectric smoke/heat detectors are microprocessor controlled state-of-the-art detectors suitable for connection to addressable fire detection control and indicating equipment. Up to 254 detectors can be connected to each alarm zone loop.

Advanced electronics in conjunction with a photoelectric smoke sensing chamber and an electronic thermistor provide early detection of fire and high immunity against unwanted alarms. The heat sensor provides sensitive rate-of-rise or fixed-temperature operation when the response threshold value is exceeded.

The iQ568D range of analogue addressable detectors provides fire detection and alarm system designers with Standards-compliant, premium fire detector for life safety and property protection applications.

Features

- Ideal for both fast-flaming and slow smouldering fires.
- Advanced algorithms provide true analogue detection discrimination
- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena.
- Surface-mount device (SMD) circuit board design
- High immunity against unwanted alarms
- Stable smoke sensing chamber. No adjustment or replacement required
- Durable heat sensor. No adjustment or replacement required
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- DC 24 V operation
- Convenient 2-wire connection
- Easy installation with simple electronic address programming. No switches to fail in service.
- Up to 254 detectors can be connected to each alarm zone loop.
- Optional remote LED output
- Base options include
 - Low profile 100 mm diameter base
 - High profile 100 mm base for mounting on hard surfaces with conduit cable entry
 - Low profile 150 mm diameter base
 - Isolator base
 - Sounder base
 - Recessed mounting for base mounting
- Low maintenance



iQ568D-SH Analogue addressable smoke/heat detector

The iQ568D smoke/heat detectors are available with numerous attractive features.

Approvals

iQ568D-SH detectors have the following approvals.

	UL 268 ^a	UL 521 ^b
iQ568D-SH	✓	✓
iQ568D-SHL	✓	✓

^a UL 268 *Smoke detectors for fire alarm signaling systems*

^b UL 521 *Heat detectors for fire protective signaling systems*



Specifications	iQ568D-SH	iQ568D-SHL
Operating voltage	DC (17 ~ 28) V	
Start-up current	≤ 800 μA	
Start-up time	≤ 30 s	
Standby current	≤ 500 μA	
Alarm current (max)	7 mA @ DC 24 V	
Sampling time	1 s	
Reset voltage	≤ 5 V	
Reset time	≤ 30 s	
Alarm response threshold (smoke)	(2.12 ± 0.61) % / foot obscuration	
Alarm response threshold (heat)	59 °C fixed temperature and 11.1 °C rate-of-rise	
Remote LED output current (max)	2 mA	
Usable addresses per alarm zone circuit	254	
Operating temperature	-10 °C ~ +37.8 °C ^a	
Operating humidity	0 % ~ 95 % RH, non-condensing	
Storage temperature	-25 °C ~ +80 °C	
Storage humidity	0 % ~ 98 % RH, non-condensing	
Alarm indicator	Two continuous emitting red LEDs	
Dimensions (excluding contacts)	Φ 100 mm × 48 mm	
Ingress protection rating	IP-43	
Ceiling spacing ^b	≤ 15 m	
Area of Coverage	100m ²	

^a Can transit to higher temperatures for heat sensor operation.

^b Applies to heat sensor function.

Ordering Information

	2-Wire	Nominal Operating Voltage	Remote LED Output
iQ568D-SH	✓	DC 24 V	—
iQ568D-SHL ^a	✓	DC 24 V	✓

^a Requires 8-terminal base if remote indicator is installed.