



ANALOGUE ADDRESSABLE SMOKE DETECTOR iQ568D-S

DIP-switch addressed smoke detector for 2-wire systems

Description

iQ568D analogue addressable photoelectric smoke 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 provide early detection of smoke and high immunity against unwanted alarms.

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

Features

The iQ568D smoke detectors are available with numerous attractive features.

- Advanced algorithms provide true analogue detection discrimination
- Surface-mount device (SMD) circuit board design
- Stable photoelectric smoke sensing chamber. No adjustment or replacement required
- High immunity against unwanted alarms
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- DC 24 V operation
- Convenient 2-wire connection
- Easy installation with simple address setting DIP switches
- 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-S analogue addressable smoke detector

Approvals

iQ568D-S detectors have the following approvals.

	UL 268 ^a
iQ568D-S	✓
iQ568D-SL	✓

^a UL 268 Smoke detectors for fire alarm signaling systems



Specifications

	iQ568D-S	iQ568D-SL
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	(2.12 ± 0.61) % / foot obscuration	
Remote LED output current (max)	2 mA	
Usable addresses per alarm zone circuit	254	
Operating temperature	-10 °C ~ +37.8 °C	
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 × 35 mm	
Ingress protection rating	IP-43	
Area of coverage	100m ²	

Ordering Information

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

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