

Description

SNA-360 analogue addressable photoelectric smoke/heat detectors are microprocessor controlled state-of-the-art detectors compatible with popular control and indicating equipment loop protocols. Up to 125 or 250 detectors can be connected to each alarm zone loop according to ST or XP protocol.

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 operation or fixed-temperature operation when the response threshold value is exceeded.

The SNA-360 analogue addressable detector range provides fire detection and alarm system designers with a premium smoke/heat detector for life safety and property protection applications.

Features

- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena
- Ideal for both fast-flaming and slow smouldering fires
- Advanced algorithms provide analogue detection discrimination
- 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 to many popular loop protocols
- Easy installation with simple address setting DIP switches
- Available with 125 or 250 usable detector address settings per loop according to ST or XP protocol
- Optional remote LED output
- Low maintenance

Compliance

SNA-360 smoke/heat detectors have the following compliance.

	EN 54-5 ^a	EN 54-7 ^b	CE
SNA-360-C2	✓	✓	✓
SNA-360-CL	✓	✓	✓

^a EN 54-5 Fire detection and fire alarm systems. Heat detectors. Point detectors

^b EN 54-7 Fire detection and fire alarm systems. Smoke detectors. Point detectors using scattered light, transmitted light or ionization

Accessories

The following accessories are compatible with SNA-360 smoke/heat detectors.

Description	Part number	Datasheet
4-terminal 102 mm low profile base	CN302A	31-0036
8-terminal 102 mm low profile base	CN304A	31-0038
Remote indicator ^a	681-001	31-0027

^a Requires 8-terminal base.



SNA-360 analogue addressable smoke/heat detector

Specifications

	SNA-360-C2	SNA-360-CL
Operating voltage	DC (17 ~ 28) V	
Start-up current	≤ 400 μA	
Start-up time	≤ 30 s	
Quiescent current	≤ 460 μA	
Sampling time	≤ 2 s	
Alarm response threshold (smoke)	(0.08 ~ 0.15) dB/m	
Alarm response threshold (heat)	59 °C static, and rate-of-rise ^a	
Alarm current (max)	2 mA	5 mA
Alarm indicator	Dual red LEDs	
Remote LED output current (max)	—	2 mA
Reset voltage	≤ 3 V	
Reset time	≤ 30 s	
Usable addresses per alarm loop	125 (ST) 250 (XP)	
Operating temperature	(-10 ~ +55) °C	
Operating humidity	(0 ~ 95) % RH, non-condensing	
Storage temperature	(-25 ~ +80) °C	
Storage humidity	(0 ~ 98) % RH, non-condensing	
Dimensions (excluding contacts)	Φ 102 mm × 45 mm	
Ingress protection rating	IP-42	

^a Detectors are factory-configured for 30 K/min and comply with EN 54-5 class A1 and class A2.

Ordering Information

	Remote Indicator ^a
SNA-360-C2	—
SNA-360-CL	✓

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

View the complete range of products at
www.numens.com

