

Description

SNC-300 non-addressable photoelectric smoke/heat detectors are state-of-the-art detectors suitable for connection to 2-wire or 4-wire non-addressable fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept non-addressable type detectors¹.

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 SNC-300 non-addressable detector range provides fire detection and alarm system designers with a Standards-compliant economical 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
- Advanced algorithms provide analogue detection discrimination
- Ideal for both fast-flaming and slow smouldering fires
- 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
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire model for DC 48 V operation
- 4-wire models available with a N/O alarm relay output
- 4-wire models available with auto-reset function
- 2-wire models available with remote LED output
- Connects to zone monitor for use with addressable control and indicating equipment
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- Low maintenance

Compliance

SNC-300 smoke/heat detectors have the following compliance.

	EN 54-5 ^a UL 521 ^b	EN 54-7 ^c UL 268 ^d	CE
SNC-300-C2	✓	✓	✓
SNC-300-CL	✓	✓	✓
SNC-300-CR	✓	✓	✓
SNC-300-CR4	—	—	✓
SNC-300-CA	—	—	✓

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

^b UL 521 Heat detectors for fire protective signaling systems

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

^d UL 268 Smoke detectors for fire alarm signaling systems



SNC-300 non-addressable smoke/heat detector

Accessories

The following accessories are compatible with SNC-300 smoke/heat detectors.

Description	Part number	Datasheet
5-terminal 102 mm low profile base	CN3023	31-0035
5-terminal 102 mm low profile base ^a	CN3021	31-0035
9-terminal 102 mm low profile base	CN3043	31-0037
9-terminal 102 mm low profile base ^a	CN3041	31-0037
Detector monitor module	620-001	31-0027
Remote indicator ^b	681-001	31-0034

^a UL-approved.

^b Requires 9-terminal base.

¹ May be used with the 620-001 detector monitor module.

Specifications

	SNC-300-C2 SNC-300-C2-U	SNC-300-CL SNC-300-CL-U	SNC-300-CR	SNC-300-CA	SNC-300-CR4
Operating voltage	DC (10.8 ~ 33) V		DC (10.8 ~ 26.4) V		DC (40 ~ 60) V
Start-up current	≤ 100 μA		≤ 135 μA		
Start-up time	≤ 30 s				
Quiescent current	≤ 75 μA				
Alarm current (max)	50 mA		35 mA		
Sampling time	(3 ~ 5) s				
Alarm response threshold (smoke)	(0.08 ~ 0.15) dB/m				
Alarm response threshold (heat)	59 °C static, and rate-of-rise ^a				
Alarm indicator	Dual red LEDs				
Remote LED output current (max)	—	15 mA	—		
Reset voltage	≤ 1 V				
Reset time	≤ 5 s				
Auto-reset time	—			(4 ~ 6) s	—
Alarm output relay	—		SPST. N/O. 1.0 A @ DC 30 V / 0.5 A @ AC 125 V	—	SPST. N/O. 1.0 A @ DC 30 V / 0.5 A @ AC 125 V
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

	2-Wire	4-Wire	Remote Indicator ^a	Relay Output	Auto Reset
SNC-300-C2 ^b	✓	—	—	—	—
SNC-300-CL ^b	✓	—	✓	—	—
SNC-300-CR ^b	—	✓	—	✓	—
SNC-300-CR4	—	✓	—	✓	—
SNC-300-C2-U ^c	✓	—	—	—	—
SNC-300-CL-U ^c	✓	—	✓	—	—
SNC-300-CR-U ^c	—	✓	—	✓	—
SNC-300-CA	—	✓	—	—	✓

^a Requires 9-terminal base if remote indicator is installed.

^b EN type.

^c UL type.

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

