

### Description

SNC-300 non-addressable photoelectric smoke 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 detectors<sup>1</sup>.

Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of fire and high immunity against unwanted alarms.

The SNC-300 non-addressable detector range provides fire detection and alarm system designers with a Standards-compliant economical smoke detector for life safety and property protection applications.

### Features

- Advanced algorithms provide analogue detection discrimination
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- Surface-mount device (SMD) circuit board design
- High immunity against unwanted alarms
- Stable smoke sensing chamber. 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
- 2-wire models available with remote LED output
- 4-wire models available with a N/O alarm relay output
- 4-wire model compatible with relay base
- 4-wire models available with auto-reset function
- 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 detectors have the following compliance.

	EN 54-5 <sup>a</sup>	CE	UL 268 <sup>b</sup>
SNC-300-S2	✓	✓	—
SNC-300-SL	✓	✓	—
SNC-300-SR	✓	✓	—
SNC-300-SRR	—	✓	—
SNC-300-SR4	—	✓	—
SNC-300-S2-U	—	—	✓
SNC-300-SL-U	—	—	✓
SNC-300-SR-U	—	—	✓
SNC-300-SA	—	—	✓

<sup>a</sup> EN 54-7 Fire detection and fire alarm systems. Smoke detectors. Point detectors using scattered light, transmitted light or ionization

<sup>b</sup> UL 268 Smoke detectors for fire alarm signaling systems



SNC-300 non-addressable smoke detector

### Accessories

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

Description	Part number	Datasheet
5-terminal 102 mm low profile base	CN3023	31-0035
5-terminal 102 mm low profile base <sup>a</sup>	CN3021	31-0035
9-terminal 102 mm low profile base	CN3043	31-0037
9-terminal 102 mm low profile base <sup>a</sup>	CN3041	31-0037
Detector monitor module	620-001	31-0027
Remote indicator <sup>b</sup>	681-001	31-0034
480 relay output base <sup>c</sup>	480-001	31-0039
	480-002	

<sup>a</sup> UL-approved.

<sup>b</sup> Requires 9-terminal base.

<sup>c</sup> Compatible with SNC-300-SRR

<sup>1</sup> May be used with the 620-001 detector monitor module.

## Specifications

	SNC-300-S2 SNC-300-S2-U	SNC-300-SL SNC-300-SL-U	SNC-300-SR SNC-300-SR-U	SNC-300-SRR	SNC-300-SA	SNC-300-SR4
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	(0.08 ~ 0.15) dB/m					
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			
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 × 34 mm					
Ingress protection rating	IP-42					

## Ordering Information

	2-Wire	4-Wire	Remote Indicator <sup>a</sup>	Relay Output	Auto Reset
SNC-300-S2 <sup>b</sup>	✓	—	—	—	—
SNC-300-SL <sup>b</sup>	✓	—	✓	—	—
SNC-300-SR <sup>b</sup>	—	✓	—	✓	—
SNC-300-SRR <sup>b, c</sup>	—	✓	—	—	—
SNC-300-SR4	—	✓	—	✓	—
SNC-300-S2-U <sup>d</sup>	✓	—	—	—	—
SNC-300-SL-U <sup>d</sup>	✓	—	✓	—	—
SNC-300-SR-U <sup>d</sup>	—	✓	—	✓	—
SNC-300-SA	—	✓	—	✓	✓

<sup>a</sup> Requires 9-terminal base if remote indicator is installed.

<sup>b</sup> EN type.

<sup>c</sup> Compatible with 480 relay output base.

<sup>d</sup> UL type.

View the complete range of products at [www.numens.net](http://www.numens.net)

