

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 detectors¹.

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
- 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 ^a	CE	UL 268 ^b
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	—	—	✓

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

^b 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 ^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
484 relay output base ^c	484-001	31-0083
	484-002	

^a UL-approved.

^b Requires 9-terminal base.

^c Compatible with SNC-300-SRR

¹ 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-SR4	SNC-300-SA
Operating voltage	DC (10.8 ~ 33) V		DC (10.8 ~ 26.4) V	DC (10 ~ 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 ^a (1.32 ~ 2.38) %/ft ^b					
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 x 34 mm					
Ingress protection rating	IP-42					

^a EN type.

^b UL type.

Ordering Information

	2-Wire	4-Wire	Remote Indicator ^a	Relay Output	Auto Reset
SNC-300-S2 ^b	✓	—	—	—	—
SNC-300-S2-U ^c	✓	—	—	—	—
SNC-300-SL ^b	✓	—	✓	—	—
SNC-300-SL-U ^c	✓	—	✓	—	—
SNC-300-SRR ^{b, d}	—	✓	—	—	—
SNC-300-SR ^b	—	✓	—	✓	—
SNC-300-SR4	—	✓	—	✓	—
SNC-300-SR-U ^c	—	✓	—	✓	—
SNC-300-SA	—	✓	—	✓	✓

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

^b EN type.

^c UL type.

^d Compatible with 484 relay output base.

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



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