

# SNC-300 Smoke Detector

- ▶ **SNC-300 non-addressable smoke detector.**
- ▶ **UL 268, EN 54-7, CE.**
- ▶ **Smoke detector 2-wire and 4-wire system applications.**

## 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
- 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 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	-	-	✓

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

b. UL 268 Smoke detectors for the alarm signaling systems.

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



## Accessories

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

Description	Part number	Datasheet
5-terminal 102mm low profile base	CN3023	31-0035
5-terminal 102mm low profile base <sup>a</sup>	CN3021	31-0035
9-terminal 102mm low profile base	CN3043	31-0037
9-terminal 102mm 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>	480-001 480-002	31-0039

a. UL - approved

b. Required 9-terminal base

c. Compatible with SNC-300-SRR

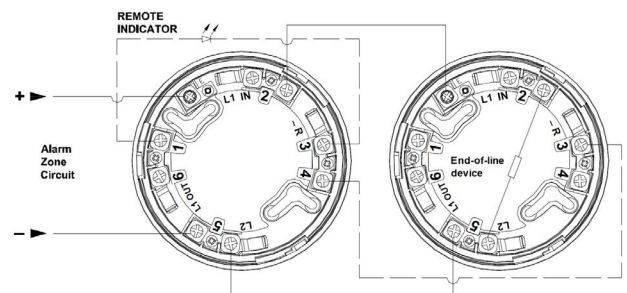


Fig. 1: 2-wire base wiring connections



## 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)	-	15mA	-			
Reset voltage	≤ 1V					
Reset time	≤ 5s					
Alarm output relay	-	SPST.N/O. 1.0.A @ DC 30V / 0.5A @ AC 125V				-
Auto reset time	-				(4 ~ 6) s	-
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)	Ø 102 mm x 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	-	✓	-	✓	✓

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

c. Compatible with 480 relay output base..

b. EN type.

d. UL type.

