



UL 268
Edition 7

NB380-S (UL)

Smoke Detector

NB380-S conventional photoelectric smoke detectors are state - of - the - art detectors suitable for connection to conventional fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept conventional type detectors via a specific interface module. Advanced algorithms, in conjunction with a stable photoelectric smoke sensing chamber, provide early detection of smoke and high immunity against unwanted alarms. The **NB380-S** range of conventional detectors provide fire detection and alarm system designers with a Standards-compliant, economical smoke detector for life safety and property protection applications.

Key Features

- Advanced algorithms provide advanced detection discrimination
- Automatic drift compensation for long-term stability
- Two IR transmitter. Photoelectric smoke sensing technology
- Easy installation. No programming required. Low maintenance
- Stable photoelectric smoke sensing chamber.
- Sleek low-profile housing design
- Cooking nuisance immunity. High immunity against unwanted alarms
- Wide operation voltage range to accommodate DC12V and DC24V supply
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire models include a N/C or N/O alarm relay output
- 4-wire models available with auto-reset function
- Base options include:
 - Low profile 100 mm diameter base new version
 - Low profile 100 mm diameter base with remote LED Connection
 - Low profile 100 mm diameter base 4 wire
- Connects to zone monitor to interface with addressable control and indicating equipment

NB380-S (UL)

TECHNICAL SPECIFICATIONS	NB380-S2-UL NB380-S2L-UL	NB380-S4R-UL
OPERATING VOLTAGE	DC (9 / 33) V	DC (10 / 28) V
START-UP CURRENT	≤ 350 µA	
START-UP TIME	≤ 8 s	
STANDBY CURRENT (MAX.)	≤ 50 µA	
ALARM CURRENT (MAX)	19 mA ^a @ 9 V 24 mA ^b @ 9 V 77 mA ^a @ 28 V 102 mA ^b @ 28 V ^a without remote LED ^b with remote LED	12 mA @ 10 V 48 mA @ 28 V 40 mA @ 24 V
MAXIMUM PERMITTED CURRENT	100 mA without remote LED	
SAMPLING TIME	3 s ~ 8 s	
RESET VOLTAGE	≤ 2.1 V	

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TECHNICAL SPECIFICATIONS	NB380-S2 NB380-S2L		NB380-S4R
RESET TIME			≤ 3 s
ALARM RESPONSE THRESHOLD (SMOKE)			1.0 – 4.0%/ft
ALARM RELAY (MAX)			SPST. N/O or N/C. 2.0 A @ DC 30 V / 0.5 A @ AC 125 V
OPERATING TEMPERATURE			-10 °C ~ +50 °C
OPERATING HUMIDITY			0 % ~ 95 % RH, non-condensing
STORAGE TEMPERATURE			-25 °C ~ +80 °C
STORAGE HUMIDITY			0 % ~ 98 % RH, non-condensing
ALARM INDICATOR			Two red LEDs
DIMENSIONS (EXCLUDING CONTACTS)			Ø 100 mm × 38 mm

ORDER CODE	2-Wire	4-Wire	Normal Operating Voltage	Remote LED Output	Alarm Relay Output
NB380-S2-UL	✓		9-33V DC		
NB380-S2L-UL	✓		9-33V DC	✓	
NB380-S4R-UL		✓	10-28V DC		✓