



UL 268
Edition 7
and
UL 521

NB380-SH (UL)

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Smoke/Heat Detector

NB380-SH conventional photoelectric smoke/heat 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. Advanced electronics combine a photoelectric smoke sensing chamber and an electronic thermistor to provide early detection of fire and high immunity against unwanted alarms.

The **NB380** range of conventional detectors provide fire detection and alarm system designers with a Standards compliant, economical fire detector for life safety and property protection applications.

Key Features

- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena
- Advanced algorithms provide excellent detection discrimination
- Automatic drift compensation for long-term stability
- Ideal for both fast-flaming and smouldering fires
- Cooking nuisance immunity. High immunity against unwanted alarms
- Stable smoke sensing chamber equipped with two IR transmitter
- Wide operation voltage range to accommodate DC12V and DC24V supply
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- 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
- Connect to zone monitor for use with addressable control and indicating equipment

TECHNICAL SPECIFICATIONS	NB380-SH2-UL	NB380-SH2L-UL	NB380-SH4R-UL
	NB380-SH2L-UL		
OPERATING VOLTAGE	DC (9 / 33) V		DC (10 / 28) V
START-UP CURRENT	≤ 350 µA		
START-UP TIME	≤ 8 s		
STANDBY CURRENT	≤ 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		12 mA @ 10 V 48 mA @ 28 V 40 mA @ 24 V
^a without remote LED	64 mA ^a @ 24 V		
^b with remote LED	85 mA ^b @ 24V		

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TECHNICAL SPECIFICATIONS	NB380-SH2-UL		NB380-SH4R-UL	
	NB380-SH2L-UL			
MAXIMUM PERMITTED CURRENT	100 mA without remote LED			
SAMPLING TIME	8 s			
RESET VOLTAGE	≤ 2.1 V			
RESET TIME	≤ 3 s			
ALARM RESPONSE THRESHOLD (SMOKE)	1.0 – 4.0 %/ft		1.0 – 4.0 %/ft	
ALARM RESPONSE THRESHOLD (HEAT)	Ordinary - Group A - 138°F/59°C			
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 × 48 mm			

ORDER CODE	2-Wire	4-Wire	Normal Operating Voltage	Remote LED Output	Alarm Relay Output
NB380-SH2-UL	✓		9-33V DC		
NB380-SH2L-UL	✓		9-33V DC	✓	
NB380-SH4R-UL		✓	10-28V DC		✓