

## NB380F Conventional heat detector

EN 54-5, ( € 🕪 📵



Electronic heat detector for 2-wire or 4-wire systems datasheet

### Description

NB380F conventional 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 detectors1.

An electronic thermistor sensor provides sensitive rate-ofrise alarm operation, or fixed-temperature operation when the response threshold value is exceeded.

The NB380F range of conventional detectors provide fire detection and alarm system designers with a Standardscompliant, economical heat detector for property protection applications<sup>2</sup> where smoke or multi-sensor detectors may not be suitable due to environmental conditions.



NB380F conventional heat detector (The address flag is only for indication)

#### **Features**

The NB380F heat detectors are available in a wide range of variants to suit many applications.

- Advanced algorithms provide excellent detection discrimination
- Easy installation. No programming required
- Low maintenance
- Sleek low-profile housing design
- Durable sensor. No adjustment or replacement required
- Wide operation voltage range to be accommodate DC12V and DC24V supply
- Surface-mount device (SMD) circuit board 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 optional 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 for use with addressable control and indicating equipment

### **Approvals**

NB380F heat detectors shall have the following approvals.

	EN 54-5 <sup>a</sup>	CE	MED <sup>b</sup>
NB380F-H2	✓	✓	✓
NB380F-H2L	✓	✓	✓
NB380F-H4R	✓	✓	✓

<sup>&</sup>lt;sup>a</sup> EN 54-5 Fire detection and fire alarm systems. Heat detectors. Point detectors.

### **Accessories**

The following accessories are compatible with NB380F heat detectors.

Description	Part number	Datasheet		
Low profile 100 mm diameter base new version	972913			
Low profile 100 mm diameter base with remote LED Connection	972914			
Low profile 100 mm diameter base 4 wire	974915			
Remote indicator <sup>a</sup>	NB106	31-0012		
Zone monitor	NB773	31-0056		
<sup>a</sup> Suitable for NB380F-H2L only. Will not have Standards approval.				

<sup>&</sup>lt;sup>2</sup> **WARNING** – Hazardous levels of smoke and toxic gas can build up before a heat detector might operate. Where life safety and building evacuation is necessary in the event of a fire, smoke, gas or combination detectors usually provide earlier warning than heat detectors alone.



<sup>&</sup>lt;sup>b</sup> MED Marine Equipment Directive

 $<sup>^{1}</sup>$  May be used in conjunction with the NB773 zone monitor

# **Specifications**

	NB380F-H2 NB380F-H2L	NB380F-H4R			
Operating voltage	DC (9 ~ 33) V	DC (10 ~ 28) V			
Start-up current	≤ 350 μA				
Start-up time	≤8 s				
Standby current	≤45 µA				
Alarm current (max)	19 mA (without remote LED) @ 9 V 24 mA (with remote LED) @ 9 V 77 mA (without remote LED) @ 28 V 102 mA (with remote LED) @ 28 V 64 mA (without remote LED) @ 24 V 85 mA (with remote LED) @ 24V	12 mA @ 10 V 48 mA @ 28 V 40 mA @ 24 V			
Maximum permitted current	100 mA without remote LED				
Sampling time	5 s				
Reset voltage	≤ 2.1 V				
Reset time	≤3s				
Alarm response threshold	A1R				
Alarm relay	_	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 continuous emitting red LEDs				
Dimensions (excluding contacts)	Ф 100 mm × 38 mm				
Ceiling spacing for heat sensor	≤ 15 m				

# **Ordering Information**

	2-Wire	4-Wire	Nominal Operating Voltage	Remote LED Output	Alarm Relay Output
NB380F-H2	✓	_	DC 24 V	_	_
NB380F-H2L <sup>a</sup>	✓	_	DC 24 V	✓	_
NB380F-H4R	_	✓	DC 24 V	_	✓

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