



DF 502 - HD Conventional heat detector

Description

DF 502 - HD 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-of-rise alarm operation, or fixed-temperature operation when the response threshold value is exceeded.

The DF 502 - HD range of conventional detectors provides fire detection and alarm system designers with a Standards-compliant, economical heat detector for property protection applications² where smoke or multi-sensor detectors may not be suitable due to environmental conditions.



Features

The DF 502 - HD 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
- Surface-mount device (SMD) circuit board design
- Dual LEDs for 360° visibility
- Magnet-initiated alarm test function available with some models
- Base options include
 - Low profile 100 mm diameter base
 - High profile 100 mm base for mounting on hard surfaces with conduit cable entry
 - Low profile 150 mm diameter base
 - Sounder base
 - Recessed mounting for base mounting
- Connects to zone monitor for use with addressable control and indicating equipment

Specifications	
	DF 502-HD
Operating voltage	DC (9 ~ 33) V
Start-up current	≤ 170 μA
Start-up time	≤ 60 s
Standby current	≤ 50 μA
Alarm current (max)	90 mA
Sampling time	≤ 5 s
Reset voltage	≤ 1 V
Reset time	≤ 3 s
Alarm response threshold	59 °C static temperature, and 11.1°C / min (20°F/min) rate-of-rise temperature
Operating temperature	-10 °C ~ +37.8 °C ^a
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)	Φ 100 mm × 37 mm
Ingress protection rating	IP-43

^a Can transit to higher temperatures for heat sensor operation



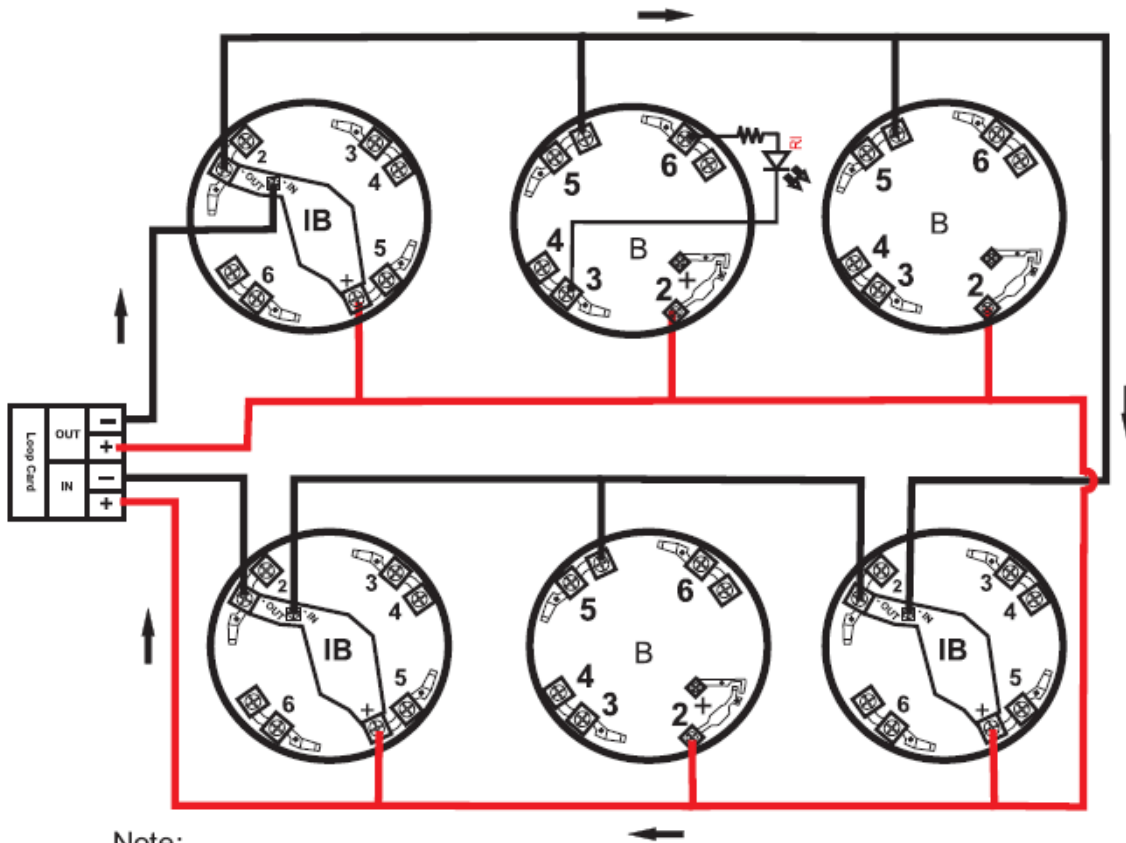


DF 502 - HD Conventional heat detector

Mechanical Specification

Height : 46 mm with base
Diameter : 100 mm dia
Weight : 130g with base
IP Rating : IP - 42

Wiring Diagram



Note:

RI - Response Indicator
B - Standard Base
IB - Isolator Base

