



DF 303 - HD Analogue addressable heat detector

Description

DF 303 - HD analogue addressable heat detectors are microprocessor controlled state-of-the-art analogue addressable detectors suitable for connection to addressable fire detection control and indicating equipment. Up to 254 detectors can be connected to each alarm zone loop.

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

The DF 303 - HD range of analogue addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium heat detector for property protection applications¹ where smoke or multi-sensor detectors may not be suitable due to environmental conditions.

Features

The DF 303 - HD smoke detectors are available with numerous attractive features.

- Advanced algorithms provide true analogue detection discrimination
- Surface-mount device (SMD) circuit board design
- Durable sensor. No adjustment or replacement required
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- DC 24 V operation
- Easy installation with simple address setting DIP switches
- Up to 254 detectors can be connected to each alarm zone loop.
- 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
 - Isolator base
 - Sounder base
 - Recessed mounting for base mounting
- Low maintenance



Specifications

| | DF 303 – HD |
|---|--|
| Operating voltage | DC (17 ~ 28) V |
| Start-up current | 800 µA |
| Start-up time | 30 s |
| Standby current | 500 µA |
| Alarm current (max) | 5 mA @ DC 24 V |
| Sampling time | 1 s |
| Reset voltage | 5 V |
| Reset time | 30 s |
| Alarm response threshold | 59 °C fixed temperature and 11.1°C / min (20°F/min) rate-of-rise |
| Remote LED output current (max) | 2 mA |
| Usable addresses per alarm zone circuit | 254 |
| 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) | 100 mm × 35 mm |
| Ingress protection rating | IP-42 |
| Ceiling spacing | 15 m |

^a Can transit to higher temperatures for heat sensor operation



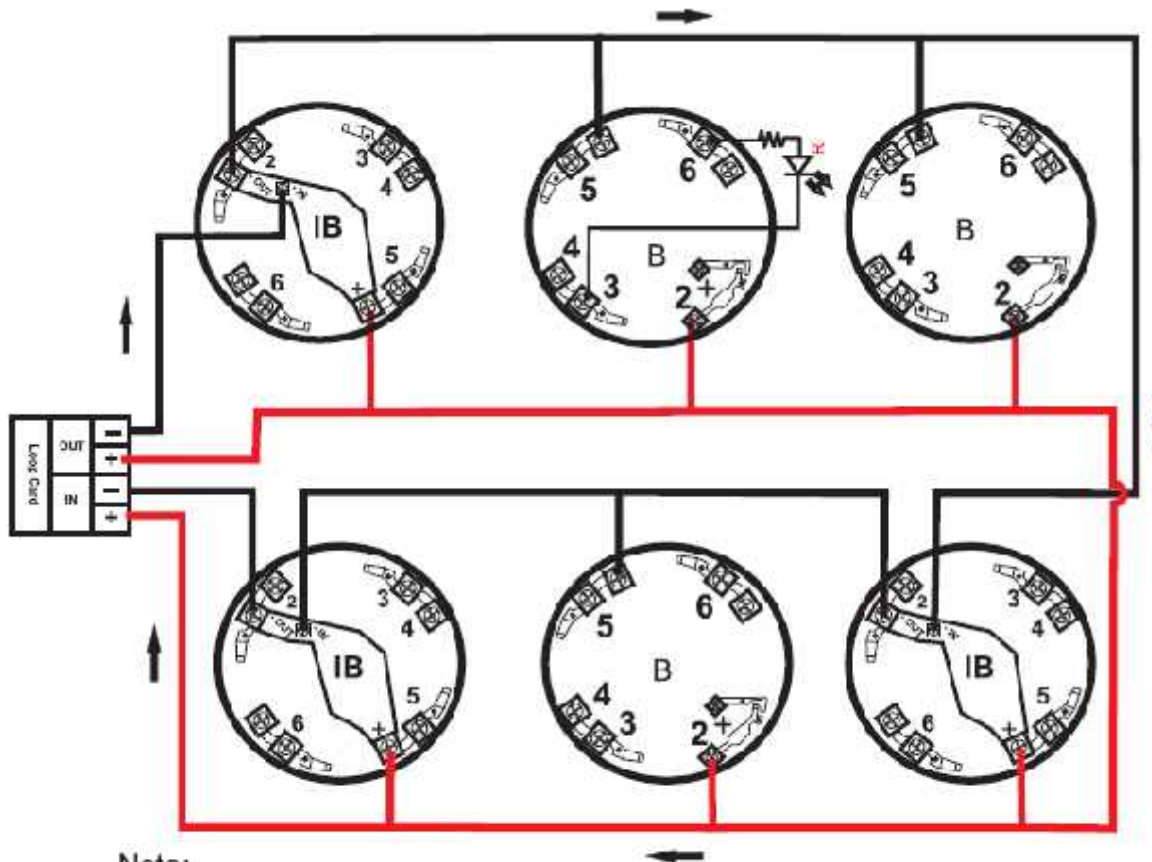


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Mechanical Specification

Height : 46 mm with base
Diameter : 100 mm dia
Weight : 150g with base
IP Rating : IP - 42

Wiring Diagram



Note:

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

