



DF 303 - MD Analogue addressable multi sensor detector

Description

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

Advanced electronics in conjunction with a photoelectric smoke sensing chamber and an electronic thermistor provide early detection of fire and high immunity against unwanted alarms. The heat sensor provides sensitive rate-of-rise or fixed-temperature operation when the response threshold value is exceeded.

The DF 303-MD range of analogue addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium fire detector for life safety and property protection applications.

Features

The DF 303-MD multi sensor detectors are available with numerous attractive features.

- Dual photoelectric smoke and heat sensors to detect either smoke, heat or a combination of the phenomena.
- Ideal for both fast-flaming and slow smouldering fires.
- Advanced algorithms provide true analogue detection discrimination
- Surface-mount device (SMD) circuit board design
- High immunity against unwanted alarms
- Stable smoke sensing chamber. No adjustment or replacement required
- Durable heat sensor. No adjustment or replacement required
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- DC 24 V operation
- Easy installation with simple electronic address programming. No switches to fail in service.
- 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 - MD
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 (smoke)	(2.12 ± 0.61) % / foot obscuration
Alarm response threshold (heat)	59 °C fixed temperature and 11.1 °C 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)	Φ 100 mm × 35 mm
Ingress protection rating	IP-42
Ceiling spacing ^b	≤ 15 m

^a Can transit to higher temperatures for heat sensor operation
^b Applies to heat sensor function



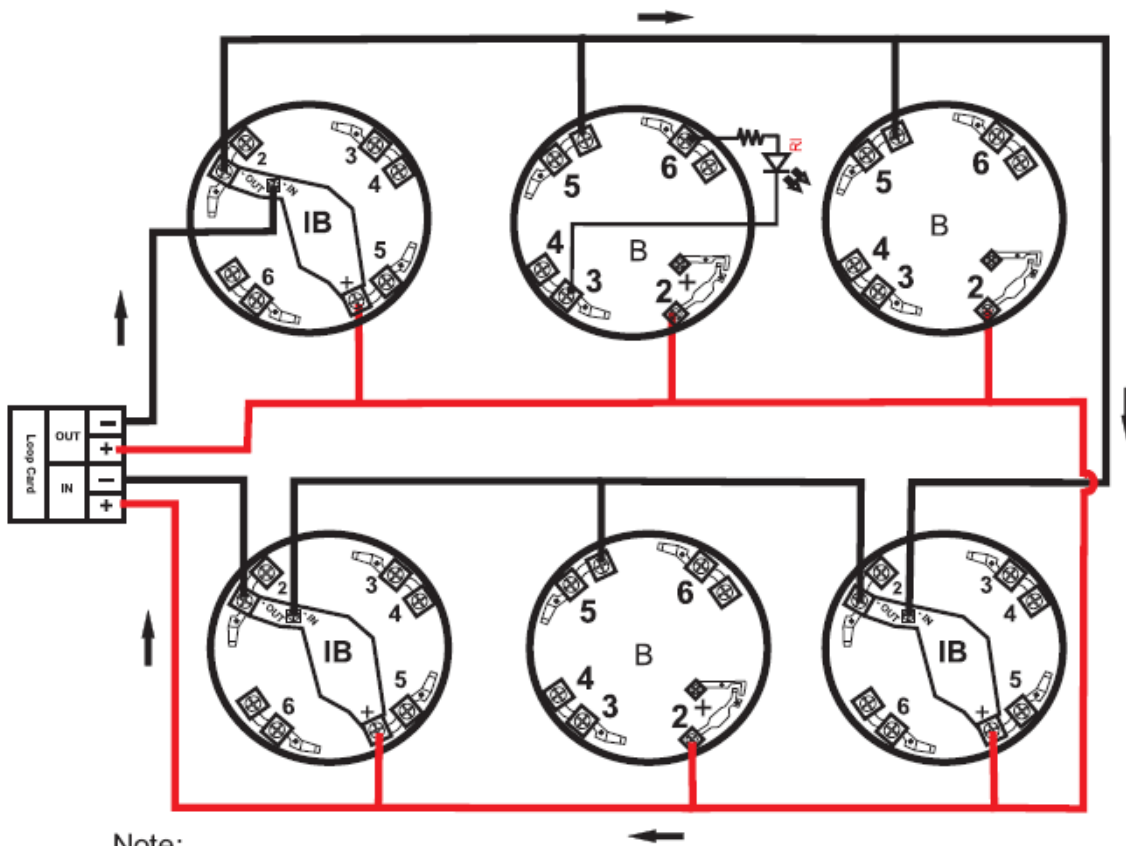


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Mechanical Specification

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

