



## DF 303 - SD Analogue addressable Smoke detector

### Description

DF 303 - SD analogue addressable photoelectric smoke 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 provide early detection of smoke and high immunity against unwanted alarms.

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

### Features

The DF 303 - SD 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 – SD
Operating voltage	DC (17 ~ 28) V
Start-up current	800 a
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	(2.12 ± 0.61) % / foot obscuration
Remote LED output current (max)	2 mA
Usable addresses per alarm zone circuit	254
Operating temperature	-10 °C ~ +37.8 °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)	100 mm × 35 mm
Ingress protection rating	IP-42



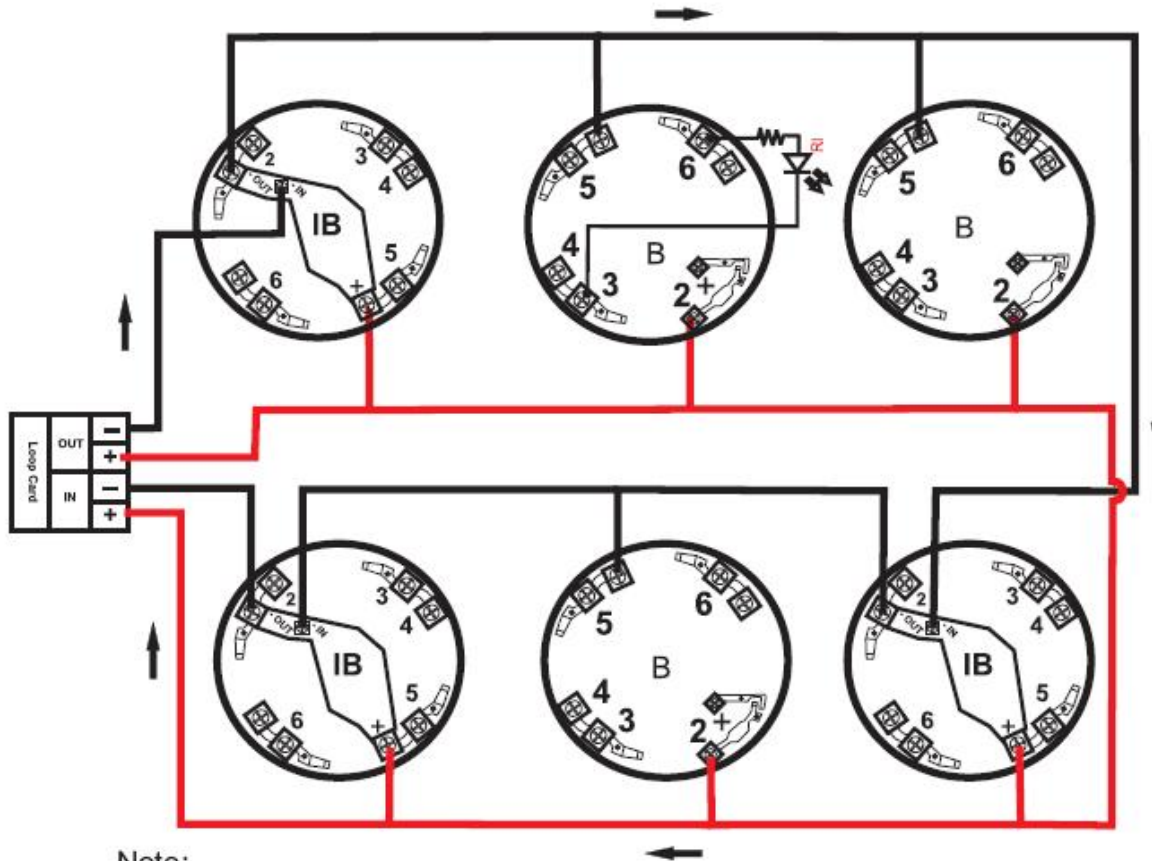


# DF 303 - SD Analogue addressable Smoke detector

### 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

