



## DA381, DA381-IS ADDRESSABLE SMOKE DETECTORS



DA381 Addressable smoke detector series are specially designed to detect smoke caused by fire in the environment and transmit the detection information to Redban control panels.

The detector features a plug-in type photoelectric smoke sensor and thermistor with addressable analog communications. The sensor transmits an analog representation of smoke density and heat rise over a communication line to a control panel. Inside MCU's EEPROM, the sensor's address is stored and can be set by a portable address setting device called RB1201 Device Programmer. The detector can be assigned an address ID ranging from 1 to 200.

The DA381-IS Model is similar to the DA381 detector, but with the addition of an isolator built into the DA381. The built-in isolator enables part of the communications loop to continue operating in the event of a short circuit. The module will automatically restore the entire communications loop to the normal condition when the short circuit is removed.

The smoke perception part or the heat perception of the detector can be disabled either by the device programmer or through program settings from the panel.

DA381 (Smoke Detector) models are available, with built-in isolators implemented in DA381-IS.

Upon activation, The DA381 illuminates two red indicator through light guides, situated on the detector head.

### Features

- Robust and aesthetic PC/ABS case
- Microprocessor based design
- Double sided light path indicator
- Self calibration
- Eliminate false alarms
- Built-in Isolator
- Led indicator output
- Class A1 Smoke Perception
- Programmable by RB1201 address programmer
- Address and data stored in nonvolatile memory
- EN54-5, EN54-7 & EN54-17 Certified

### Certificates:





## TECHNICAL SPECIFICATIONS

<b>DA381/DA381-IS</b>	
DESCRIPTION	Optical Smoke Detector
STANDARDS	EN54-7/17
LOOP OPERATING VOLTAGE	16 - 30 Vdc
LOOP OPERATING CURRENT	<200 $\mu$ A @ 24 Vdc
MAXIMUM ALARM CURRENT	<4 mA @ 24 VDC (LED on)
ADDRESSING MODE	Manual Addressing

### SPECIFICATIONS

SYSTEM WIRING	1,5 mm <sup>2</sup> 2 core loop
AREA COVERAGE	50 m <sup>2</sup>
MOUNTING POSITION	Ceiling Mount
MOUNTING BASES	DT100, DT200, ST380
HEAT CLASS	N/A
INDICATION	360° visibly led indicator
SENSITIVITY	0,23 dB/m

### ISOLATOR SPECIFICATIONS

ISOLATOR TYPE/SWITCH CURRENT	SSCS (A.3) / 230-400mA
ISOLATOR RECONNECT/LEAKAGE CURRENT	3-13mA / max. 18mA
STANDBY CURRENT/SERIAL RESISTANCE	max. 150uA / max. 1 ohm

### ENVIRONMENTAL SPECIFICATIONS

HUMIDITY	10% - 93% Relative Humidity Non-condensing
OPERATING TEMPERATURE	-10°C - 50°C
ENVIRONMENTAL CATEGORY	IP21

### COMPATIBILITY

AP104 ADDRESSABLE FIRE PANEL	Yes
AP204 ADDRESSABLE FIRE PANEL	No
AP304 ADDRESSABLE FIRE PANEL	Yes

### PHYSICAL SPECIFICATIONS

CASE MATERIAL	PC/ABS Case
DIMENSIONS (H x D)	45,6 x 103 mm

