

## DA381, DA381-IS, DA382, IA382, DA382-IS, DA383, DA383-IS ADDRESSABLE DETECTORS



XA38x Addressable detector series are specially designed to detect smoke, heat or both 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 DA383-IS Model is similar to the DA383 detector, but with the addition of an isolator built into the DA383. 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), DA382 (Heat Detector), and DA383 (Combined Detector) models are available, with built-in isolators implemented in DA381-IS, DA382-IS, and DA383-IS variants.

The heat detector side (DA382 & IA382) is Class A1 (EN54-5) heat detector.

Upon activation, The DA383 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 Heat Perception
- Programmable by RB1201 address programmer
- Address and data stored in nonvolatile memory
- EN54-5, EN54-7 & EN54-17 Certified



EN54-5:2017 + EN54-7:2018 + EN54-17:2005

**CPR No: 1922-CPR-2166**



## TECHNICAL SPECIFICATIONS

	DA381/DA381-IS	IA382/DA382/DA382-IS	DA383/DA383-IS
DESCRIPTION	Optical Smoke Detector	Heat Detector	Combined Detector
STANDARDS	EN54-7/17	EN54-5/17	EN54-5/7/17
LOOP OPERATING VOLTAGE	16 - 30 Vdc	16 - 30 Vdc	16 - 30 Vdc
LOOP OPERATING CURRENT	<200µA @ 24 Vdc	<200µA @ 24 Vdc	<200µA @ 24 Vdc
MAXIMUM ALARM CURRENT	<4 mA @ 24 VDC (LED on)	<4 mA @ 24 VDC (LED on)	<4 mA @ 24 VDC (LED on)
ADDRESSING MODE	Manual Addressing	Manual Addressing	Manual Addressing

## SPECIFICATIONS

SYSTEM WIRING	1,5 mm <sup>2</sup> 2 core loop	1,5 mm <sup>2</sup> 2 core loop	1,5 mm <sup>2</sup> 2 core loop
AREA COVERAGE	50 m <sup>2</sup>	50 m <sup>2</sup>	50 m <sup>2</sup>
MOUNTING POSITION	Ceiling Mount	Ceiling Mount	Ceiling Mount
MOUNTING BASES	DT100, DT200, ST380	DT100, DT200, ST380	DT100, DT200, ST380
HEAT CLASS	N/A	Class A1	Class A1
INDICATION	360° visibily led indicator	360° visibily led indicator	360° visibily led indicator
SENSITIVITY	0,23 dB/m	N/A	0,23 dB/m

## ISOLATOR SPECIFICATIONS

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

## ENVIRONMENTAL SPECIFICATIONS

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

## COMPATIBILTY

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

## PHYSICAL SPECIFICATIONS

CASE MATERIAL	PC/ABS Case	PC/ABS Case	PC/ABS Case
DIMENSIONS (H x D)	45,6 x 103 mm	44 / 45,6 x 103 mm	45,6 x 103 mm

