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SENSORTEC - FLAME DETECTORS

DUAL IR CONVENTIONAL FLAME DETECTOR MODEL: 2RA-P

INTRODUCTION

The 2RA-P Dual IR Flame Detector is suitable for connection to a conventional, two wire fire alarm control panel.

Traditional UV and IR flame detectors, in their singular form, are susceptible to false alarms. These false alarm sources differ for each type of flame detector, however, with the 2RA-P dual infrared flame detector both flame detector element's must receive an alarm signal prior to initiating a fire alarm signal to the fire alarm control panel.

PRINCIPLE OF OPERATION

The microprocessor based circuitry of the 2RA-P is designed to provide protection against false alarms and the unit must observe a fire indication for a set 'predetermined threshold' period before indicating a fire condition to the fire control panel.

A latching circuit is fitted inside the 2RA-P with a LED indicator operating on the detector until a 'reset' signal is sent from the control panel.

BASE COMPATIBILITY

The 2RA-P Dual IR Flame Detector is compatible with our STB-4, B4F and the older Nittan RB-3/6 bases.

Wiring to the detector is a simple two wire method, with connections to a normal zone pair. There is also a facility for remote switching an LED indicator via the 'P' switching terminal.

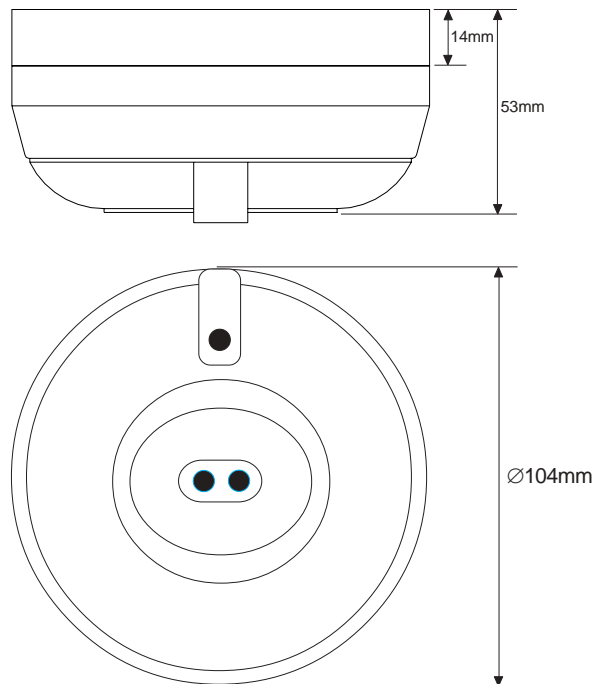
INSTALLATION

The 2RA-P Dual IR Flame Detector may be used to supplement smoke and heat detectors on the same zone especially in the coverage of high compartments where unobstructed line of sight is obtainable.



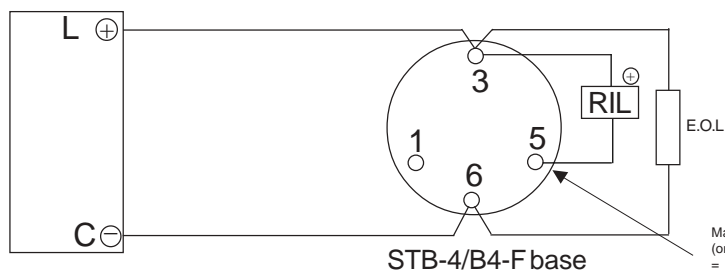
DIMENSIONS

Not to scale



CONNECTIONS

CONTROL EQUIPMENT
(Current limit to 65mA in
fire alarm condition)



Maximum current through Terminal 5
(on base), P+ (on detector)
= 100mA @ 24V d.c.

TECHNICAL SPECIFICATION

Model Number:	- - - -	2RA-P
Computer Part Number:	- - - -	F04J60041
Description:	- - - -	Conventional, Dual Infrared flame detector, indoor surface mounting type.
Spectral Response:	- - - -	Two Infrared wave lengths: - IR1) 4.3 µm and IR2) 4.0 µm.
Detection Principle:	- - - -	CO2 Resonating Radiation Detection
Nominal Detection Range:	- - - -	18m (18m - 30m)
View Angle:	- - - -	100° ±50
Nominal Detection Distance	- - - -	± 0 ~ ±10 deg. = 30m ± 15 ~ ±30 deg. = 25m ± 35 ~ ±40 deg. = 20m ± 45 deg. = 19m ± 50 deg. = 18m
Operation:	- - - -	When Sensor No 1 reaches a predetermined level and Sensor No 2 reaches a lower predetermined level than Sensor No 1 then the 2RA-P will indicate a fire condition. If Sensor No 2 level reaches a higher level of alarm than Sensor No 1 then the 2RA-P will not indicate a fire condition.
Voltage:	- - - -	24V d.c. (10 - 30V d.c.)
Quiescent Current:	- - - -	180µA.
Alarm Current:	- - - -	165mA. max. (L - C 65mA, P-C 100mA)
Connection type:	- - - -	2 Wire
Operating Temperature range:	- - - -	-10 to +50°C (14 to 122°F)
Mass:	- - - -	2RA-P = 150g Base = 50g
LED Indicator:	- - - -	Red, continuous in fire condition. Red, pulses in fault condition.

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