

## Features and technical specification

Part Number: PF/RED/1.5

### Features:

- Fully self-contained automatic fire detection and extinguishing system.
- 'Out of the box fire protection solution' requiring no fire engineering design; quick and easy to install and simple to operate.
- Designed around EN54-2 C&IE design standards.
- LPCB approved Apollo optical detection for reliability.
- HFC227ea Extinguishing agent to cover 1.5 cubic meters.
- Approved and tested bottle & valve sets, specially designed performance tested discharge nozzles, proven fire tested performance.
- Volt free contacts for connection into 3<sup>rd</sup> party equipment.
- 19" rack mounted chassis.
- 2U (88mm) height\*
- 479mm Depth

\* (Additional 2 U of free space required under unit unless OP/RED/RD are included)



### Technical Specification: Panel

Input Voltage	110/230VAC 50/60Hz via single fused IEC C13 socket
Output Voltage	110/230VAC 8A single IEC C14 socket (Fan tray shutdown)
Output Switching	1 <sup>st</sup> stage fire alarm contacts form 'C' volt free contacts 2 <sup>nd</sup> stage alarm contacts form 'C' volt free contacts Common Fault form 'C' volt free contacts All output contact ratings - 8A @ 24V dc 24v dc output fused @ 500mA Fan/Air-conditioning power shutdown output (IEC). All wired outputs use Wiedmuller plug-in terminals.
Output data port	Extinguishant delay time 0,4,32,64,128 seconds
Remote Output	Extinguishant output
Remote Inputs	Extinguishant Release Hold off Release
Backup power	2 x 1.2 AH SLAB – Up to 12hrs for standard Redetec unit
Operating Temperature	0 to +50°C
Operating Humidity	0 to 95% (non-condensing)
Power supply approvals	BS EN54-4 1998, EN55022 class B emissions limits & EN60950: 2000 safety standards
Power Supply Rating	1.5A PSU: 1.0A continuous load, 0.5A battery charge
Dimensions	19" (485mm) width, 2U (88mm) height, 479mm deep including nozzle suitable for 600mm cabinets, additional extension tubes supplied as standard for 800mm -1000mm+ cabinets.
Extinguishing Type	1.2kg HFC227ea (1,1,1,2,3,3,3- heptafluoropropane)
Fire detector types	2pcs Apollo Conventional Optical Smoke Detectors
Shipping dimensions	190mm x 570mm x 590mm
Shipping weight	13kg



## Technical Specification cont.: Detection

### Performance

Chamber Type Chevron

### Electrical

Power-Up Surge Current 0.115mA  
 Maximum Power-Up Time 30 seconds  
 Status Indicator - Alarm Red  
 Status Indicator - Fault Off  
 Quiescent Current 50µA  
 Quiescent Current Tested At 24V dc  
 Sampling Frequency Once every 3 seconds  
 Sampling Frequency -L2 Line in & out negative  
 Terminal Functions L1 In +L1 in  
 Terminal Functions L1 Out +L1 out  
 Terminal Functions -R -R Remote indicator negative connection  
 Polarity L1 & L2 are polarity insensitive  
 Alarm Current (At 24 Volts) 52mA  
 Holding Voltage (Min) 6V  
 Minimum Voltage To Light Alarm LED 12V  
 Alarm Reset Time 1s  
 Alarm Load 420Ω in series with 2V drop

### Environmental

Humidity (Min) 0% RH  
 Humidity (Max) 95% RH  
 Humidity Note no condensation or icing  
 Humidity 0% to 95% (no condensation or icing)  
 Operating Temperature (Min) -20°C  
 Operating Temperature (Max) 60°C  
 Operating Temperature -20 to 60°C  
 IP Rating Value IP23D  
 Effect Of Wind Speed None  
 Storage Temperature (Min) -30°C  
 Storage Temperature (Max) 80°C  
 Storage Temperature -30 to 80°C

### Conformance

Standards EN 54-7  
 Approvals CPR, LPCB

### Mechanical

Detection Principle Photo-electric light scattering.  
 Sensor Configuration Horizontal optical bench housing infra-red emitter and sensor arranged radially to detect forward scattered light.

Protect your business with Redetec...

putting fire protection where it counts.

19" rack-mount fire protection solutions