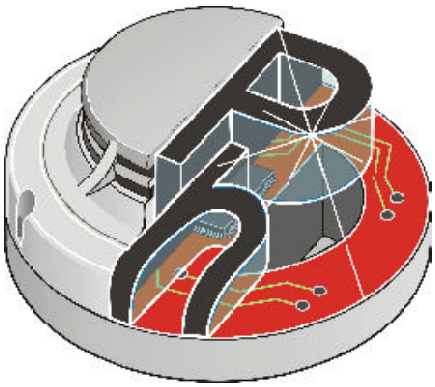
FD-851RE

Conventional Rate of Rise & Fixed Temperature Thermal Detector

Section: Conventional Devices

FEATURES

- **Low Profile Design**
- **Low Current Draw**
- **Wide Operating Voltage 8 to 30V**
- **Bi-colour LED detector status indicator**
- **Programmable sensitivity**
- **Addressable feature**
- **Advanced maintenance features via remote hand-held test unit**
- **Range of detector bases available**
- **Approved to EN54 part 5 (2000) class BS**
- **3 Year warranty**



GENERAL

The FD-851RE forms part of the ***P***rocessor en***h***anced ***D***etection series of conventional detectors. These detectors have been produced using the latest in manufacturing and design techniques, pushing out the boundaries of existing conventional detector technology. With an on board microprocessor, it's multitude of enhanced features provides the best in conventional detection.

The FD-851RE thermal detector incorporates the latest in thermal element technology, the detector provides efficient and accurate detection of fires, especially in environments such as boiler houses or kitchens where smoke detectors are inappropriate due to the high level of airborne contamination.

The remote hand-held programming tool can also be used in conjunction with the ***PhD*** series of detectors to gain access to other enhanced features. The features available include: read/write last maintenance date, read chamber contamination level, read value of thermal element and perform an alarm test.

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INSTALLATION

Each detector can be given a unique address. When used in conjunction with the S300ZDU Zone Display Unit the address will be displayed whenever the detector is in alarm.

All the features via the hand-held programming unit are achieved effectively and effortlessly without the need to remove the detector or having to gain direct physical access (other than by the use of servicing poles), saving valuable commissioning/ maintenance time.

They provide the end user with the confidence to know that the system is being regularly serviced and that it is operating at it's optimum level, with minimum disruption to business activities.

This document is not intended to be used for installation purposes. Every care has been taken in the preparation of this document but no liability can be accepted for the use of the information therein. Design features may be changed or amended without prior notice. For more information, contact **NOTIFIER.**
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In addition to the comprehensive programming tool, a simple laser based alarm test unit is also available. The coded signal transmitted by this device can instruct the detector to generate a full alarm condition at a range of up to 5 metres from the detector, and is an ideal tool for initial commissioning and routine system testing.

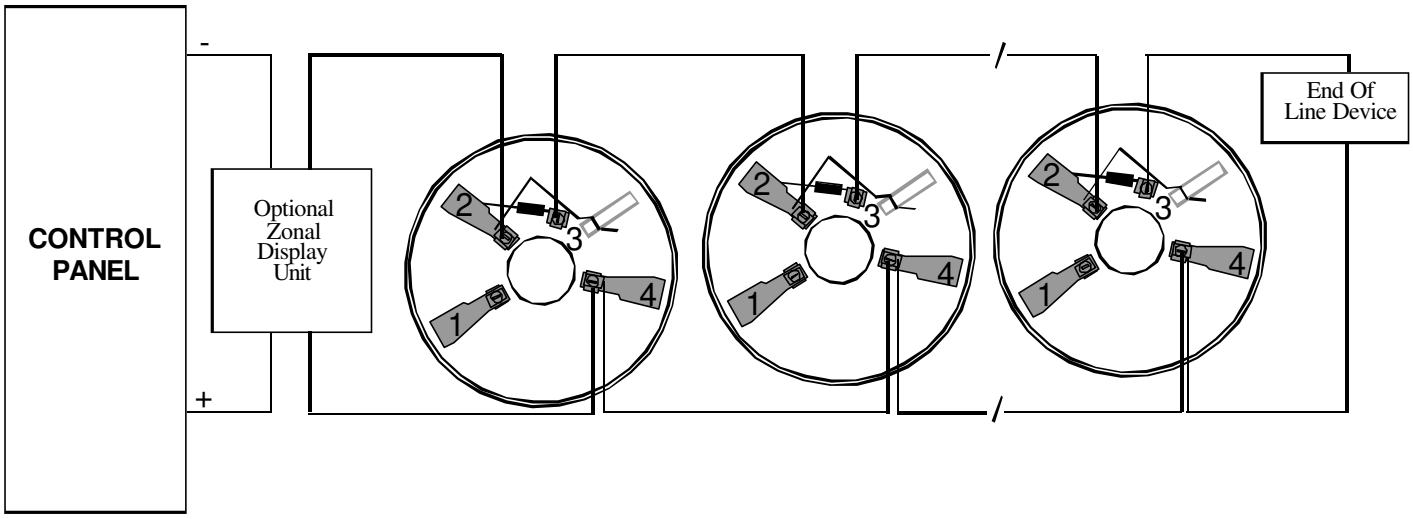
The ***PhD*** series detectors incorporate a bi-colour LED indicator. The integral LED changes colour according to the detector's status: Green = Normal, Red = Alarm. This benefits the user by providing clear, instant visual indication of the detector's condition. The Green LED can be programmed for blink/no blink operation.

A variety of detector bases are available providing compatibility with a wide range of Fire Alarm Control Panels making it ideal for expansions and retrofit applications. All bases are fitted with a shorting spring to permit circuit testing prior to fitting the detector and have a tamper resistant feature, which when activated prevents removal of the detector without the use of a tool.

SPECIFICATIONS

- **Dimensions**
  - ✓ Height: 43 mm
  - ✓ Diameter: 102 mm
  - ✓ Weight: 75g
- **Current Consumption**
  - ✓ Alarm :50 mA at 24 VDC (limited by panel)
  - ✓ Standby:100µA at 24 VDC
- **Operating Voltage**
  - ✓ 8 to 30 VDC (Nominal 12/24VDC)
- **Environmental Limits**
  - ✓ -30°C to +70°C
  - ✓ Humidity 5 to 95% (non-condensing)

ORDERING INFORMATION

Part No.	Description
FD-851RE	Conventional Rate of Rise & Fixed Temperature Thermal Detector
Base:	
B401	Standard Base
B401D	Standard Base with schotty diode
B401R	Resistor base with 470 ohm resistor
B312NL	12V non-latching relay base
B312RL	12V latching relay base
B324RL	24V latching relay base
Accessories:	
S300RPTU	Remote Programming and Test Unit Accessories
S300RTU	Remote Test Unit
S300SAT	Remote Programming Interface Unit
S300ZDU	Zonal Display Unit

Wiring Diagram (Diode Base)