

Intrinsically Safe Thermal Detector



Industrial Application Devices

General

Notifier Model 5451EIS is an intrinsically safe rate of rise detector with fixed temperature alarm. It uses state-of-the-art dual thermistor technology to provide maximum sensitivity. This detector is designed to afford open area protection and is for use in hazardous areas where potentially explosive atmospheres are likely to arise (confirm classification of equipment required with your responsible authority). Model 5451EIS detectors are designed to be used with compatible panels only.



Features

- Low profile design
- Low current draw
- Remote LED option
- Two alarm LEDs providing 360° visibility
- Simple plug-in installation
- Compatible with standard B401 mounting base
- Built-in test switch
- Tamper-resistant
- Suitable for use in up to Zone 0 environments
- Approved for use with Zener safety barriers or galvanic isolators

Approvals

• IECEx

IEC 60079-0 : 2004
IEC 60079-11 : 2006
IEC 60079-26 : 2006

Ex ia IIB T5 Ga (-20°C ≤ Ta ≤ +40°C)

• ATEX 94/9/EEC

EN 50014:1997 + Amends 1 & 2
EN 50020: 2002
EN 50284: 1999

 II 1 G EEx ia II BT5

• LPCB 118a/04

• VDS G296050

Specifications:

Operating Voltage Range:	15 to 32VDC
Maximum Standby Current:	100µA @ 24VDC Latching alarm reset by momentary power interruption
Application Temperature Range:	-10°C to 55°C
Humidity:	10% to 93% relative Humidity (non-condensing)
Intrinsically Safe Rating:	
IECEX	Ex ia IIB T5 Ga (-20°C ≤ Ta ≤ +40°C)
ATEX	EEx ia IIB T5

Compatible Barriers:

- MTL 5061
- MTL 5561
- Pepperl & Fuchs KFDO-SD2-EX1.1045
- Pepperl & Fuchs KFDO-SD2-EX2.1045
- Pepperl & Fuchs KFCDO-SD-EX1.1245

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