



Conventional Photoelectric Smoke Detector

Product Overview:

The System Sensor **Conventional Photoelectric Smoke Detector (2151BPI)** is designed to meet the performance criteria designated by fire detection standards throughout the world. The 2151BPI photoelectric smoke detector contains a unique optical sensing chamber designed to sense smoke particles produced by a wide range of combustion sources. A custom integrated circuit incorporates signal processing to reduce false alarms. Stability in high air velocities is a prime benefit in many applications (up to 15.2 m/s).

The sensing chamber is sealed against back pressure air flow and the chamber is further protected by a fine mesh screen to limit the ingress of contaminants such as dust and insects. This screen can be readily cleaned and replaced. Additional key features include a variety of mounting bases, and a full line of accessories.



Conventional Photoelectric Smoke Detector (2151BPI)

Features:

- » Sleek, low profile design
- » Dual Red indicating LEDs for 360° visibility
- » Field sensitivity metering of detectors
- » Range of adaptor bases available with in-built continuity shorting spring
- » Low standby current
- » Built-in tamper resistant base
- » Optional remote LED accessory
- » Removable cover for easy cleaning
- » Built in magnetic Alarm Test switch
- » Compatible with 400 series products
- » Independently tested and SAI Global StandardsMark certified to AS ISO 7240-7:2003

Specifications:

» Operating Voltage	10 Vdc to 30 Vdc	with B401 Base
» Standby Current	85 μ A @ 24 Vdc	
» Alarm Current	Panel Dependant (100 mA maximum)	
» Dimensions (including Base)	104 x 51	Diameter x Depth mm
» Weight (including Base)	147 g	
» Cable Terminations	0.5 mm ² to 2.5 mm ²	
» Operating Temperature Range	0 °C to 49 °C	
» Humidity	10 % to 93% RH, non-condensing	

Adapter Base Selection Guide:

Base Model Number	Loop Type	Current Limit Resistor	Nominal Voltage	Current Draw in Alarm (mA).
B401	2-wire	No	12/24 VDC	10-100*
B401R	2-wire	Yes (470 Ω)	24 VDC	10-100*

* Alarm Current must be limited by the Control Panel



B401R



SENS-RDR

Listings and Approvals:

ActivFire: AFP – 2129

Ordering Information:

Product Code	Description
2151BPI	Conventional Photoelectric Smoke Detector
B401	Conventional Detector Base
B401R	Conventional Detector Base with 470 Ω Resistor
SENS-RDR	Sensitivity Reader for 2151BPI