

**2301 INTRINSICALLY SAFE SMOKE DETECTOR****APPLICATIONS**

The 2301 Intrinsically Safe Smoke Detector is designed for use in hazardous areas where flammable gases, powders, etc are present such as a chemical works.

The overall flat response to a wide range of smoke particles avoids the use of ionisation detectors in the majority of applications making system design easier and overcoming the cleaning and disposal problems associated with ionisation sensors.

**FEATURES**

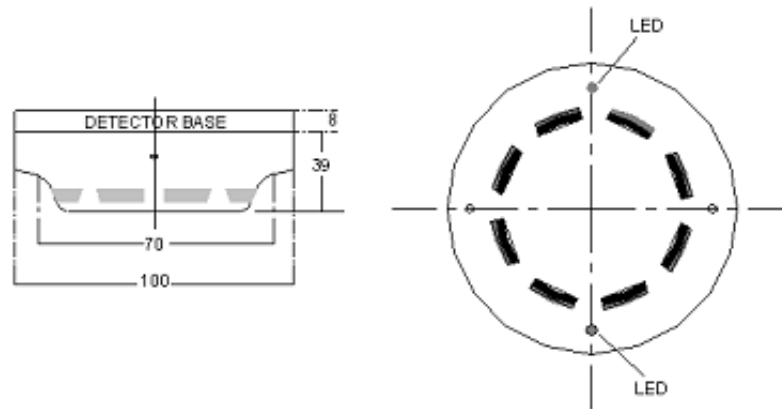
- Removable, High Performance chamber
- Covers 100m<sup>2</sup>
- Remote Indicator output
- Supported by a range of barriers
- Low profile design with one piece outer cover
- Twin fire LED's allow 360° viewing
- Suitable for installation in areas at Category 1 (inc all lower categories)

**OPERATION**

The 2301 Intrinsically Safe Smoke Detector is fully compatible with the majority of our existing conventional systems. It incorporates a High Performance Chamber containing an infra-red LED light source and silicon photo-diode. In the event of a fire, smoke enters the detection chamber and infra-red light is reflected from the smoke particles onto the photo-diode producing an electronic signal which is then filtered and used to trigger the internal latching circuit. The High Performance Chamber Technology enables the detector threshold level to be increased, thereby improving the signal to noise ratio and reducing susceptibility to false alarms.

The chamber is easily removable allowing cleaning or replacement. A 360° view of sensor status is achieved through twin LEDs.

**APPROVALS:** Tested and approved to EN54 Part 7 by the Loss Prevention Council, Germanischer Lloyd, ATEX



(N.B: Detector operates with various detector bases see *Compatible Equipment*)

<b>SPECIFICATION</b>	
<b>Order Code</b>	2301
<b>Operating Voltage</b>	15 – 30v DC, nominally 24v DC
<b>Quiescent Current</b>	50 uA at 24v DC
<b>Maximum Current in Alarm</b>	50 mA max at 24v DC
<b>Operating Temperature</b>	-10 <sup>0</sup> C to +50 <sup>0</sup> C
<b>Material</b>	ABS
<b>Colour</b>	Ivory White
<b>Weight</b>	115g
<b>Dimensions (mm)</b>	100 Diameter x 39 Depth (48 Depth with base)
<b>Ingress Protection</b>	IP42
<b>Maximum Humidity</b>	90% RH – non condensing (at 40 <sup>0</sup> C)