SPECIFICATION

Document Title Conventional Ionisation Smoke Detector
Model SIJ-E

Date August 2000

Version 1.0

Conventional Ionisation Smoke Detector Model SIJ-E

Features

- Low quiescent current
- Low profile design with one piece outer cover
- Shielded from external noise
- Twin fire LED's allow 360° viewing
- Full Range of Mounting Bases
- Approved to EN54 Part 7

Description

Model SIJ-E is an Ionisation Detector, which has a one piece outer cover and twin fire LED's for 360° viewing.

Each detector incorporates a single radioactive source, which ionises two chambers and allows a small DC current to flow between the electrodes in each chamber. Smoke can freely enter the outer chamber whilst the inner chamber is virtually sealed. Smoke entering the outer chamber causes a reduction in the DC current, the imbalance between the two currents is proportional to the smoke density, which is converted, filtered and then used to trigger the internal latching circuit.

The SIJ-E is supported by a wide range of bases for different applications and these are supported on the majority of conventional systems.

Specification

Ordering Code	SIJ-E
Operating Voltage	15-30V
Quiescent Current	35µA
Max. Current in Alarm	40mA
Radioactive Source	Am241 0.5µCi
Operating Temp. Range	-10°C to +50°C
Storage Temp. Range	-20°C to +60°C
Diameter	100mm
Height With Base	46mm
Compatible Bases	YBN-R4, YBK-R5 /5SK /5ZD /5R2
Base Fixing Centres	48mm through to 74mm
Weight (incl. base)	80g (125g)
Maximum Humidity	95%RH - Non Condensing (at 40°C)