

IONISATION SMOKE SENSOR



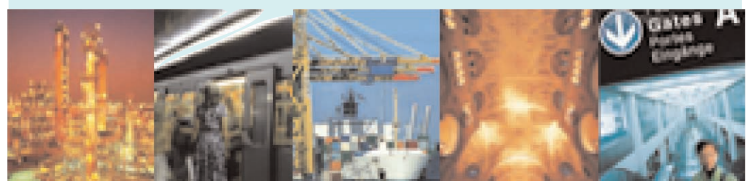
Model AIE-E is an Ionisation Smoke Sensor, which is fully compatible with Hochiki's ESP Analogue Addressable Protocol.

A single radioactive source within the AIE-E ionises two chambers which 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.

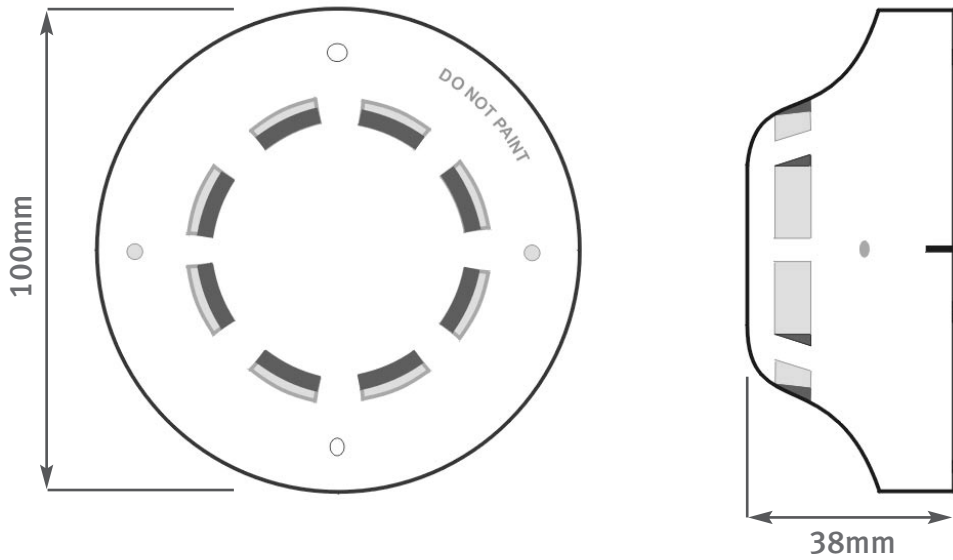
Smoke entering the outer chamber causes a reduction in the DC current, the imbalance between the two currents is proportional to smoke density which is filtered and transmitted as the analogue value.

The threshold on the AIE-E can be adjusted to compensate for contamination by utilising the built in test facility.

- ▶ Twin fire LED's allow 360° viewing
- ▶ Locking mechanism (sensor to base)
- ▶ Shielded from external noise
- ▶ Variable sensitivity
- ▶ Electronically Addressed
- ▶ Non-pulsing version available (AIE-E(NP))
- ▶ Approved by LPCB & VdS

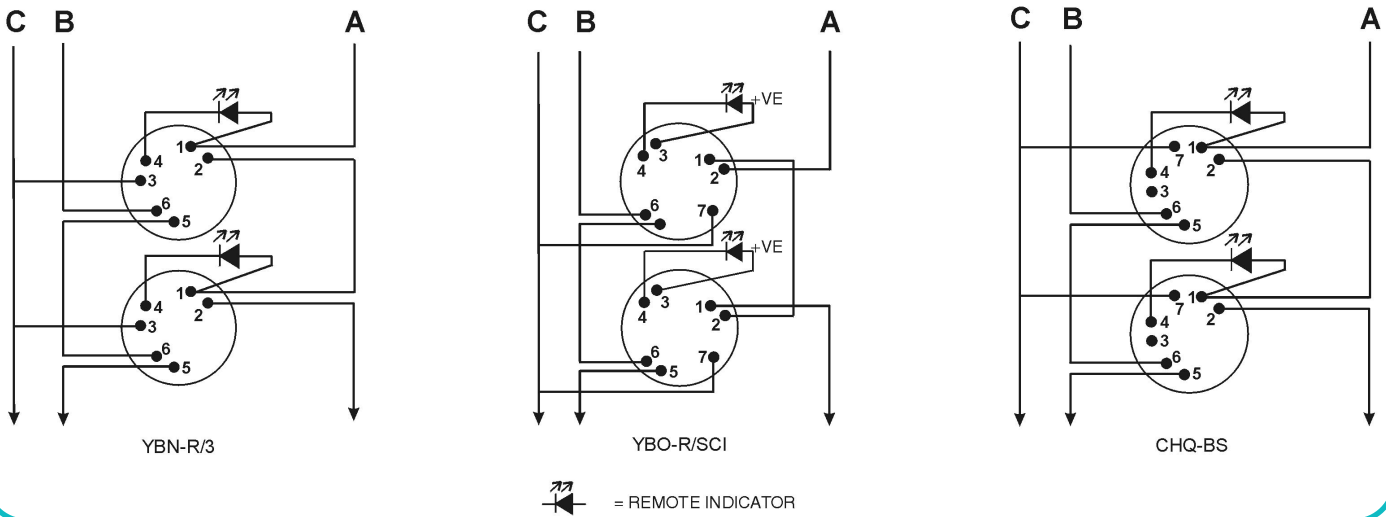


DIMENSIONS



WIRING

KEY: A Loop +ve, B Loop -ve, C Cable Screen



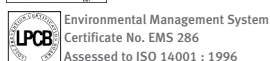
SPECIFICATION

Ordering Code	AIE-E / AIE-E(NP)		
Operating Voltage	17 - 41Vd.c.		
Low Power Mode (typ)	120µA		
Quiescent Current (typ)	310µA		
Alarm Current (controlled by CIE)	19mA		
Transmission Method	Digital Communications Using ESP		
Radioactive Source	Am241 1µCi		
Operating Temperature Range	-10°C to + 50°C		
Storage Temperature Range	-30°C to + 60°C		
Maximum Humidity	95%RH - Non Condensing (at 40°C)		
Ingress Protection Rating	IP42		
Colour / Case Material	Ivory White / ABS		
Weight (g)	115		
Compatible Bases	YBN-R/3	YBO-R/SCI	CHQ-BS
Base Heights (mm)	8	13	36
Base Fixing Centres (mm)	48 ~ 74		
Approvals	AIE-E	LPCB	EN54: Part 7
	AIE-E(NP)	VdS	EN54: Part 7 (G299075)

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Quality System
 Certificate No. 164
 Assessed to ISO9001



Environmental Management System
 Certificate No. EMS 286
 Assessed to ISO 14001 : 1996

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