

# Analogue Photoelectric Smoke Sensor

## ST-ASD-I



### Features

- ▶ Removable, High Performance chamber
- ▶ Twin LEDs allow 360° viewing – green when polling, turn red in fire
- ▶ Locking mechanism (sensor to base)
- ▶ Variable sensitivity
- ▶ Electronically addressed
- ▶ Pulsing/non-pulsing controlled from panel\*
- ▶ Approved by LPCB & VdS
- ▶ SIL Level 2 approved variants available
- ▶ Available in white

### Description

Model ST-ASD-I is a Photoelectric Smoke Sensor, which is fully compatible with the ESP Analogue Addressable Protocol.

The ST-ASD-I incorporates newest High Performance Chamber Technology removing the need to use Ionisation Smoke Sensors in the majority of applications. This also allows the sensor threshold level to be increased, thereby improving the signal to noise ratio and reducing susceptibility to false alarms.

The ST-ASD-I smoke chamber is easily removed or replaced for cleaning and utilises a unique improved baffle design which allows smoke to enter the chamber whilst keeping out ambient light.

Specification	
Ordering Code	ST-ASD-I ST-ASD-W
Operating Voltage	17 – 41 V d.c.
Low Power Mode (typ)	120 A
Quiescent Current (typ)	400 $\mu$ A
Alarm Current (controlled by CIE)	9.1 mA (excluding remote indicator)
Transmission Method	Digital Communications Using ESP
Operating Temperature Range	-10 °C to + 50 °C
Operating Humidity	95% RH - Non Condensing (at 40 °C)
Storage Temperature Range	-30 °C to +60 °C
Storage Humidity	<80% RH at 60 °C
Colour / Case Material	Ivory or White / ABS
Weight (g)	95
Diameter (mm) / Height (mm)	100 / 45
Compatible Bases	ST-ABI-W ST-ABI-SCR, ST-ABS-W, ST-ABSF-WWL, ST-ABI-SCW
Base Fixing Centres (mm)	48 ~ 74
Approvals	LPCB & VdS

\*Control Panel compatibility required