



## Photo Optical Smoke Detector SLV-AS

### Product Overview

**New design, New technology plus improved electronics means better protection.**

The new SLV series of Photoelectric Smoke Detector has been designed with a unique "FLAT RESPONSE TECHNOLOGY", enabling the detector to be equally sensitive to a much wider range of combustible materials. The graph shows the response of the SLV Photoelectric Smoke Detector to Proposed ISO test fires, when compared with current technology detectors. The overall flat response of the SLV Photoelectric Smoke Detector eliminates the need to use Ionization Detectors in the majority of applications. This makes system design easier and overcomes the cleaning and disposal problems associated with Ionisation Detectors, obscuration

Hockiki's new Photoelectric Detector incorporates a redesigned smoke chamber with "Flat Response". Technology enabling it to be equally sensitive to a wider range of combustible materials, thus removing the need for Ionisation Detectors in the majority of applications.

New Chamber design to reduce unwanted alarms.

Flat response smoke chamber.

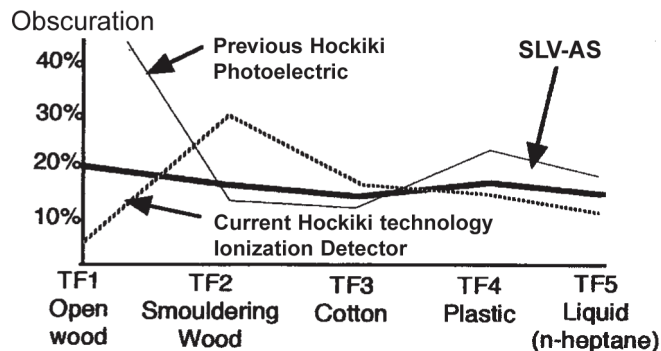
Small mesh size prevents ingress of insects.

Fully compatible with existing conventional panels.

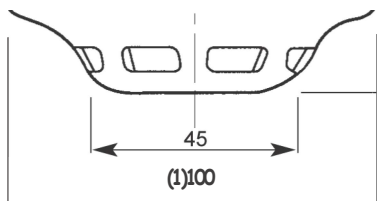
Twin alarm LED on the head for 360 degree viewing.

### Installation & Maintenance

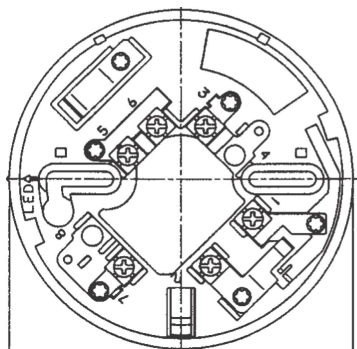
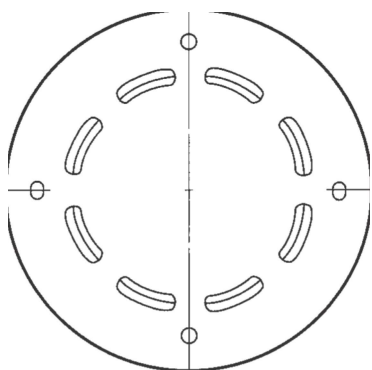
Each detector has been designed with a one piece outer cover which gives an aesthetically pleasing modern low profile shape. Twin fire alarm LEDs give 360 viewing; the light from the LEDs is transmitted via unique light guides which is achieved by the LEDs being sealed on the PCB for increased protection and reliability. A common mounting base allows easy detector interchange. A simple anti tamper locking mechanism is enabled by removing a small plastic lug on the head and can



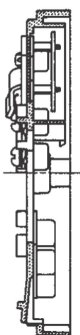
## SPECIFICATION



40  
4



<100



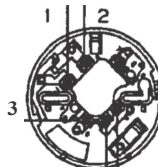
Line voltage to detector:	
Rated voltage	:DC24.0V
Working voltage	:DC15.0~30.0V
Allowable Maximum Voltage	:DC42.0V
Current at Quiescent state:	
Supervisory current	:35.0μA at 24V
	:31.0μA at 15V
	:38.0 μA at 30V
Surge current	:160 <sub>1</sub> A at 24V
Alarm state:	
Maximum voltage	:17.6V at 80mA
Minimum voltage	:8.47V at 24mA
Maximum current	:80mA Max.
Minimum current	:24mA
Ambient temperature	:-10 - +50 °C
Mounting holes	:48 - 74mm in pitch
Weight	:150g with the base
Colour	:White

Nominal sensitivity:	
SLV-AS	:8%0bs/m
SSL Listing Number:	
SLV-AS	afp:1649
Compatible Base:	YBO-R/4A

## OPERATION

The detection chamber consists of an LED and photodiode arrangement. The chamber is designed so that light emitted by the LED cannot normally reach the photo-diode. When smoke particles enter the chamber the light scattered and some of this light falls on the photo-diode. This is converted into an electronic signal, filtered and then used to trigger the internal latching circuit. The chamber utilizes a unique baffle design which allows smoke to enter the chamber while keeping out ambient light.

CONTROL PANEL



REMOTE LAMP , i

Maximum Current at "R"  
Terminal (for Remote LED) 30mA