

## 6: VIGILON LOOP DEVICES

## S-Quad Sensors

# GENT

by Honeywell



S-Quad

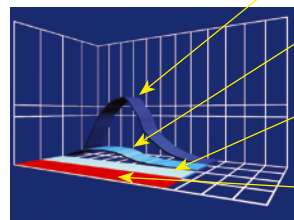
### Why a Dual Optical Heat CO Multi-sensor?

Combining the CO technology into the O<sub>2</sub>H sensor radically reduces false alarms and allows fast detection of fires.

Many combinations of the different sensors are used in the multi-sensor to enable fast and above all, reliable fire detection.

### O<sub>2</sub>HCO Performance Examples

Steam



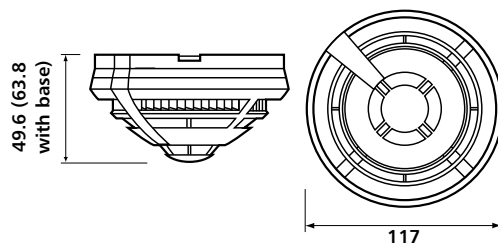
Forward Scatter  
• High Signal  
= Alarm

Backwards Scatter  
• Low Signal  
= No Alarm

Heat & CO  
• No Signal  
= No Alarm

Result  
No Alarm

### Dimensions (mm)



TECHNICAL SPECIFICATION					
Type	Optical	Optical Heat	Heat	Dual Optical Heat	Dual Optical Heat CO
Device Load Factor	1	1	1	1	1
Ingress Protection	IP30				
Approx Weight	0.11 Kg (0.17 Kg with base)				
Operating Temperature	-10°C to +50°C				
Relevant Standards	EN54-7	EN54-7 +5	EN54-5	EN54-7 +5	EN54-7 +5
Approvals	LPCB pending			LBCB	

A new concept in fire detection – a truly intelligent analogue sensor combining exceptional computing power in the sensor as well as the panel to achieve an extremely fast response to a real fire whilst minimising the risk of false alarms.

- The multi-sensor combines heat (H), carbon monoxide (CO), optical forward scatter (OFS) and optical backward scatter (OBS)
- The patented dual angle optical scatter technology allows identification of the particle source filtering potential false alarms due to steam and dust
- The gas sensing element (CO) within the chamber monitors the concentration of carbon monoxide, a product of incomplete combustion in some fire types, and potentially life threatening. The CO sensor allows rapid fire detection, with smouldering fires, in areas where smoke detectors could register false alarms
- Combined CO gas sensing with dual angle optical and heat allows a higher level of false alarm immunity whilst still improving the detection speed of certain types of fire
- Each sensor element has sensitivity settings which can be adjusted to suit the environment / application and can be programmed for different time periods during the day or night
- Repeat fire LED output as standard (if monitored input not used)
- Operational LED blink 'On/Off' option
- Monitored Input - which can be Fire, Fault or Supervisory

### ORDER CODES

Sensor Base	S4-700
Heat Sensor	S4-720
S-Quad Optical Heat	S4-710
Optical*	S4-715
Dual Optical Heat Sensor	S4-711
Dual Optical Heat Sensor CO	S4-911

(\*only for use with Vigilon Compact)