

# Hush-Pro Optical Smoke Detector

Part No. **HP416**



## Overview

A high-quality smoke detector for use with C-TEC's HP508 Hush-Pro BS5839-6 Grade C Controller.

Certified to EN54-7& 17 by the LPCB.

Smart algorithms help reduce false alarms.

Drift compensation functionality.

0.16dB/M sensitivity/obscuration level.

Two 8mm x 2mm ultra-bright red LED indicating strips offering 360° visibility.

Compatible with our HP508 Hush Controller.

Up to 16 field devices (detectors, sounders and/or I/O units) per Controller.

## Technical Specifications

Approvals/certifications	Certified to EN54-7 & 17 by the LPCB.
Compatibility	Compatible with C-TEC's HP508 Hush-Pro Controller.
Type	Optical (utilises an infrared light source and photodiode).
Application/operation	When there is no smoke, light passes in front of the photodiode in a straight line. When smoke enters the chamber across the path of the IR beam, light is scattered, some of which falls on the photodiode triggering the alarm.
Application temperature	n/a
Static response temperature	n/a
Supply wiring	2-wire monitored, polarity sensitive.
Supply/operating voltage	27 to 40V DC.
Quiescent current	370uA - 5mA @ 24V.
Alarm current	6mA (LEDs illuminated).
Indicators	2 LED indicator strips emitting red light when in alarm offering 360° visibility. Optional remote LED.



Connections	Via HP408 base: 1 +Ve IN (analogue switch); 2 +Ve OUT (analogue switch); 3 Remote LED +Ve; 4 0V; 5 0V; 6 Screen; 7 Screen.
Expansion connections	Remote LED output available via HP408 or 408R base. Current source to the negative line, short-circuit protected. Max voltage 2.7V DC.
Product dimensions (mm)	102.2mm diameter x 37mm deep (detector in base); 102.2mm diameter x 57.5mm deep.
Construction & finish	White polycarbonate casing rated to UL94 V-2 with nylon parts.
IP Rating	IP42.
Weight	99g (not in base); 154g (in base).
Operating conditions/temperature	-20°C to +85°C.
Notes	Requires a HP408 Hush-Pro base. HP408R relay base also available.



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