# Hush-Pro Optical Smoke Detector

## Part No. **HP416**

## Overview

A high-qualitysmoke detector for use withC-TEC'sHP508 Hush-Pro BS5839-6 Grade C Controller.

Certified to EN54-7& 17 by the LPCB (pending).

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 ourHP508 Hush Controller.

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

## Technical Specifications

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| Approvals/certifications | Certified to EN54-7 & 17 by the LPCB (pending). |
| 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. |

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| Connections | Via HP408 base: 1 +Ve IN (analogue swich); 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. |