

HP402 Heat Detector

Product Datasheet Hush-Pro

Product Description

The HP402 Hush-Pro heat detector offers fixed temperature detection. The detector is compatible with C-TEC's HP508 Hush-Pro BS5839-6 Grade C controller and is compliant with EN 54-5 and EN 54-17.

Note: When used with the Hush-Pro controller the detector may not be compliant with EN54-5 due to the false alarm reduction feature of the controller (the HUSH-Pro controller automatically resets the detector at FL1 when the detector is no longer activated).

The detector must be fitted to either a HP408 Hush-Pro detector base (which has an integrated locking mechanism to prevent tampering), or a Hush-Pro Base Mount device (Part Nos. HP431A/W, HP456A/W). Refer to HP408 Document No. DFU0002418 for detector wiring and fitting details.



Illustration shows a HP402 Hush-Pro heat detector mounted on a HP408 base

Part Number	Description
HP402	Hush-Pro Heat Detector
HP408	Hush-Pro Detector Base

Key Features

- Third-party certified to EN 54-5 & EN 54-17 by the LPCB
- Compatible with C-TEC's HP508 Hush-Pro BS5839-6 Grade C Controller
- Class A2 fixed temperature (60°C)
- 22-40 Vdc operating voltage
- Onboard short-circuit isolator
- Two ultra-bright red LED indicating strips
- Manufactured from white polycarbonate
- Simple 'click and twist' design and easy-fit base ensures reduced installation time
- Compatible with C-TEC's HP408 Hush-Pro base and Hush-Pro Base Mount devices
- Optical smoke and multisensor variants are also available (see separate datasheets for details)

Operation/Application

A 'fixed temperature' heat detector generates an alarm condition if the temperature within the protected area reaches a pre-determined level.

Heat detectors are typically used in environments where rapid fire may occur and where smoke detectors cannot be installed, e.g. in areas susceptible to fumes, airborne materials and smoke such as in kitchens, loading bays, etc.

DO NOT position the detector in the direct path of hot or cold air flow.

Technical Specification

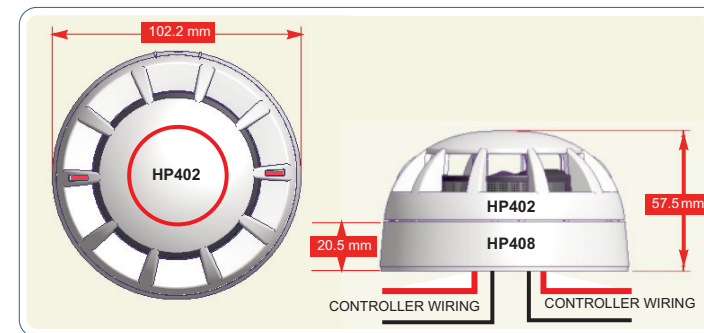
Part Number:	HP402
Description:	Heat Detector
Certifications:	EN54-5:2017 + A1:2018, EN54-17:2005 The approval certificate can be viewed at www.c-tec.com
LPCB Certificate No.:	176n/01
CPR Certificate No.:	2831-CPR-F2271
UKCA Certificate No.:	0832-UKCA-CPR-F0799
Declaration of Performance (DoP):	DoP0000044
Comms Protocol:	Hush-Pro (C-TEC)
Compatible System:	Hush-Pro
Compatible Bases:	HP408 Hush-Pro detector base and Hush-Pro Base Mount devices (Part Nos. HP431A/W, HP456A/W)
Operation Mode:	Class A2 (fixed temperature)
Heat Trigger:	60°C
Sampling Frequency:	Once per second

Operating Voltage:	22 to 40 Vdc
Quiescent Current:	370 µA at 40 Vdc
Alarm Current:	5 mA (LEDs illuminated)
LED Indicators:	Two ultra-bright red LED indicator strips offering 360° visibility
Wiring & Connections:	Via HP408 Hush-Pro base (see Document No. DFU0002418)
Detector Materials:	Robust white polycarbonate outer casing rated to UL94 V-2 with nylon internal parts
Dimensions (detector only):	102.2 mm diameter; 37 mm deep.
Dimensions (detector & base):	102.2 mm diameter; 57.5 mm deep.
Weight:	Detector 99 g; HP408 Base 55 g.
Atmospheric Pressure:	Insensitive to atmospheric pressure
Operating Temp.:	-10°C to +55°C
Humidity:	0% to 95% relative humidity

EN 54-17 SC-Isolator Specification (Controllable Isolator)

Maximum Voltage (V max):	40 Vdc
Nominal Voltage (V nom):	40 Vdc
Minimum Voltage (V min):	22 Vdc
Maximum Current Device Isolates, switches from closed to open (Iso max):	55 mA
Minimum Current Device Isolates, switches from closed to open (Iso min):	15 mA
Maximum Rated Continuous Current with switch closed (Ic max):	1 A
Maximum Rated Switching Current under short circuit conditions (Is max):	1.6 A
Maximum Leakage Current with switch open (IL max):	20 µA
Maximum Series Impedance with switch closed (Zc max)	100 mohms

Dimensions (HP402 Head & HP408 Base)



Manufacturer: Computationics Limited (C-TEC), Challenge Way, Martland Park, Wigan, Lancashire WN5 0LD. www.c-tec.com
E&OE. No responsibility can be accepted by the manufacturer or distributors of these devices for any misinterpretation of this instruction, or for the compliance of the system as a whole. The manufacturers policy is one of continuous improvement and we reserve the right to make changes to product specifications at our discretion and without prior notice.