# **Optical smoke detector - BH-300**

Interactive fire detection systems Product datasheet

### Features

- Interactive
- Different sensitivity settings possible
- Comprises the DYFI+ adaptive and self learning functions
- SelfVerify functions for reduced maintenance/testing and increased reliability
- Detection of visible smoke
- Built-in thermistor for reading of temperature at the detector point
- Short circuit isolator in each detector
- Comprises a built-in alarm indicator (LED)
- Automatic addressing
- Proven technology
- Immune to electromagnetic disturbance
- EN 54-7/EN 54-17
- Designed to meet the requirement of the major maritime classification societies

# Applications

BH-300 is a point smoke detector for detection of combustion gases mainly consisting of visible particles. The detector has a built in thermistor and is designed for use with Autronica's interactive fire detection systems, which can provide temperature information from the detector point. The SelfVerify function ensures the highest grade of reliability because all units comprising this function are tested with a calibrated test once every 24 hours.

The *DYFI*+ intelligence combined with the SelfVerify function makes this detector the obvious choice for demanding applications such as industrial, maritime and offshore installations.

## Principle

Photoelectric, operating on the light scatter principle.

SelfVerify: The detectors ability to initiate alarm at correct amount of smoke is regularly checked.



#### Versions

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BH-200	Smoke detector without SelfVerify
DI1 200	
BH-300*	Smoke detector with SelfVerify
BH-500*	Smoke detector with SelfVerify,
	environmentally protected

BH-500/S\*

- environmentally protected Smoke detector with SelfVerify,
- environmentally protected, with extra high sensitivity BH-500/Ex\* Smoke detector with SelfVerify,
- EExia-version for use in all zones
- BH-500/S/Ex Smoke detector with SelfVerify, EExia-version for use in all zones, with extra high sensivity
- BH-500/N Smoke detector with SelfVerify, Eexn-version for use in zone 2 only
- BH-500/S/N Smoke detector with SelfVerify, and extra high sensivity, Eexn version for use in zone 2 only
- \* See separate data sheet.

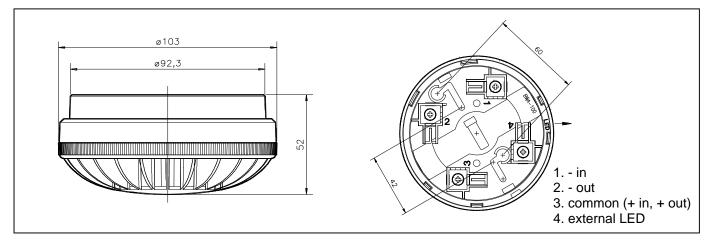
#### Table 1 – Performance classes

Performance class	Typical application
Clean	Computer rooms
Normal	Offices
Normal 2	Restaurants
Industry	Workshops



Technical specifications		
Weight	150 g	
Materials	PC/ABS	
Colour	White	
Sensitivity	Ref. Table 1	
Voltage	10 – 27 VDC	
Current consumption Stand by: External alarm indicator	< 0,3mA 6mA	
CPD certificate	1134-CPD-016	
Degree of protection	IP44D	
Working temperature	- 20 - + 70°C	
Humidity (non condensing)	Max. 95% RH	
Maintenance	None	
Service	Replace if faulty	
Approvals	See web site	

# **Dimensions/Connections**



## Use of LED output

When LED or other equipment is connected to the LED output, a varistor - Siemens SIOVS07K25 (39V) - Autronica part. no. 116-8464-003.5039, is required between terminals 1 and 4 in base. The LED is connected between terminals 3 and 4, terminal 3 being the positive terminal.

Part number	Description
116-BWA-100	Detector base
116-BHH-300	Detector head
116-BWP-100/20	Optional conduit box for M20 glands
116-BWP-100/25	Optional conduit box for M25 glands
116-BBR-52	Optional audible indicator – SmartBuzzer

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