# OPTICAL SMOKE DETECTOR W/SELFVERIFY - BH-500/EX

Interactive fire detection systems Product Datasheet

#### **Technical specifications and instructions**

#### **Features**

- Interactive
- Comprises the DYFI+ adaptive and self-learning functions
- With SelfVerify function for reduced maintenance/testing and increased reliability
- Selective to misleading environmental phenomena that in a traditional system would lead to an unwanted fire alarm
- · Detection of visible smoke
- Built in thermistor for reading of temperature at the detector point
- · Short circuit isolator in each detector
- Automatic addressing
- Proven technology
- Immune to electromagnetic disturbance
- Additional coating of PCB
- Designed to meet the requirement of the major maritime classification societies

## **Description / Application**

BH-500/EX is a point smoke detector for use in hazardous area zone 0, 1 or 2. It must be connected to the approved barrier BZ.500. 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 automatically tested with a calibrated test once every 24 hours.

Additional coating of PCB combined with the adaptivity of BH-500/EX, is making this detector suitable for industrial, maritime, offshore and other «rough area» applications.

#### **Schedule Drawing**

No modifications permitted without reference to the Notified Body



#### **Principle**

Photoelectric, operating on the light scatter principle.

SelfVerify: the detector's ability to initiate alarm at correct amount of smoke is regularly checked.

#### **Versions**

•	BH-200*	Smoke detector standard
•	BH-300*	Smoke detector with SelfVerify
•	BH-500*	Smoke detector with SelfVerify,
		environmentally protected
•	BH-500/S*	High-sensitive smoke detector
		(not acc. to EN 54)
•	BH-500/EX	Smoke detector with SelfVerify,
		Ex ia-version for use in zone 0, 1 and 2
•	BH-500/S/EX*	Smoke detector with SelfVerify,
		Ex ia-version for use in zone 0, 1 and 2,
		with extra high sensivity
•	BH-500/N*	Smoke detector with SelfVerify,
		Ex ic version for use in zone 2
•	BH-500/S/N*	High-sensitive version
		(not acc. to EN 54)

<sup>\*</sup> See separate datasheet.



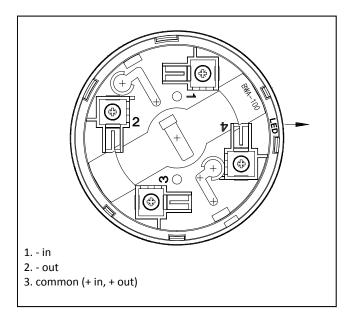
Technical specifications				
ABS				
<del>,,,,</del>				
	y			
	,			
	consumption stand by:			
	n. requirement			
	f protection			
	temperature			
	emperature			
	(non condensing)			
	ance			
	ificate			
	res			
70	body			
	,			
18X	mination certificate			
09X				
EXX)  2  1  11  C)  30-4:2011  00-6-3:2001  99  No. 0-10  No. 205-12  0-11  1-11  11-11  No. 60529-05  On Edition Edition Edition 2004 26: 2011	s and Standards			
CTS Ga Ex ia IIC TS Ga	neters			
ruk				

Product Name	Part number	Description
BWA-100	116-BWA-100	Socket (base)
BHH-500/EX	116-BHH-500/EX	Detector head
BWP-100/20	116-BWP-100/20	Optional conduit box for M20 glands
BWP-100/25	116-BWP-100/25	Optional conduit box for M25 glands

## **Table 1 - Performance classes**

Performance class	Typical application
Clean	Computer rooms
Normal 1	Offices
Normal 2	Restaurants
Industry	Workshops

## **Connections**



# **Dimension Drawing (mm)**

