

MULTISENSOR WITH SELFVERIFY - BH-520/EX

Interactive fire detection systems Product Datasheet

Technical specifications and instructions

Features

- Interactive
- Multisensor detectors ensure fast response to various fire developments
- Smoke detector for detection of combustion gases mainly consisting of visible (large) particles. Heat sensor assisted for early detection of flaming fires
- Comprises DYFI+ adaptive and self-learning function
- With SelfVerify function for reduced maintenance/testing and increased reliability
- Built in thermistor for reading of temperature at the detector point
- Selective towards misleading environmental phenomena that in a traditional system would lead to an unwanted fire alarm
- Short circuit isolator in each detector
- Additional coating of PCB
- Automatic addressing
- Proven technology
- Designed to meet the requirement of the major maritime classification societies

Description / Application

BH-520/EX is a multisensor detector for use in hazardous area zones 0, 1 or 2. It must be connected the approved barrier BZ-500. A rise in temperature will change the detection platform by increasing the smoke sensitivity in order to improve the detection of combustion gases from flaming fires producing barely a minimum of visible smoke particles. The MultiSensor principle combined with advanced signal processing in the detector ensures an early response to any type of fire development.

BH-520/EX is designed for use with Autronica's interactive fire detection systems.

Additional coating of PCB combined with the adaptivity and the allround smoke sensitivity of BH-520/EX makes this detector suitable for industrial, maritime and offshore applications where there is a potential flaming or/and smouldering fire hazard.

Schedule Drawing

No modifications permitted
without reference to the
Notified Body



Principle


Dual - 2 - sensor detector. Photoelectric, operating on the light scatter principle and temperature measurement by means of a thermistor.

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

Versions

- BH-220* MultiSensor, standard
- BH-320* MultiSensor with SelfVerify
- BH-520* MultiSensor with SelfVerify, environmentally protected
- BH-520/EX MultiSensor with SelfVerify, Ex ia version for use in zone 0, 1 and 2

* See separate datasheet.

Technical specifications	
Weight	165 g
Material	Polycarbonate/ABS
Colour	White
Sensitivity	See Table 1
Voltage	10 - 27 VDC
Current consumption stand by	< 0,3 mA
Environm. requirement	EN 54-7
Degree of protection	IP44D*
Working temperature	- 20 - +70 °C
Storage temperature	- 55 - +70 °C
Humidity (non condensing)	Max. 95 % RH
Maintenance	None
Service	Replace if faulty
CPD certificate	1134-CPD-017
Certificates	See website
Notified body	NEMKO ID No. 0470 CSA
Type examination certificate	NEMKO 03ATEX218X IECEX NEM 11.0009X
Directives and standards	2014/34/EU (ATEX) EN 60079-0:2012 EN 60079-11:2012 IEC 60079-0:2011 IEC 60079-11:2011 2014/30/EU (EMC) Immunity: EN 50130-4:2011 Emission: EN 61000-6-3:2001 CAN/CSA-C22.2 No. 0-10 CAN/CSA-C22.2 No. 205-12 CAN/CSA-60079-0-11 CAN/CSA-60079-1-11 CAN/CSA-60079-11-11 CAN/CSA-C22.2 No. 60529-05 UL 464, 9th Edition UL 60079-0, 5th Edition UL 60079-1, 6th Edition UL 60079-11, 5th Edition ANSI/IEC 60529:2004 ANSI/ISA-60079-26: 2011
Ex parameters	 II 1G Ex ia IIC T5 Ga Class 1, Zone 0, AEx ia IIC T5 Ga Ui = 15,75V Ii = 63,5mA Ci = 21,6nF Li = 0 Pi = 0,44W Warning: Do not rub.

*requires approved cable glands and/or plugs of minimum the same IP level.

Product Name	Part number	Description
BWA-100	116-BWA-100	Socket (base)
BHH-520/EX	116-BHH-520/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

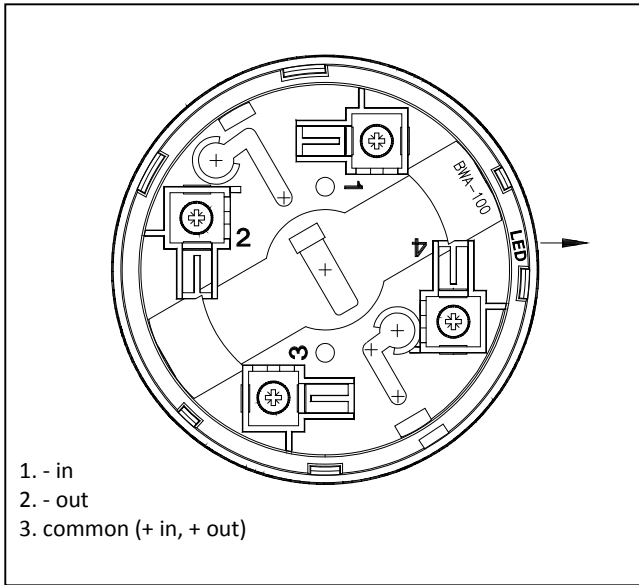
Table 1 - Performance classes

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

Table 2 - Operation classes

Performance class	Typical application
Multisensor w/heat	Smoke alarm or heat alarm
Multisensor	Smoke alarm (heat assisted)
Heat only	Heat alarm (class A1)

Connections



Dimension Drawing (mm)

