

# HEAT DETECTOR D-A-F - BD-505/EXD

Interactive fire detection systems  
Product Datasheet

## Technical Specifications and Instructions

### Features

- Interactive
- Different alarm temperature models available
- Built in short circuit isolator
- Conforms to EMC directive
- No hardware addressing required
- Automatic addressing
- Proven technology
- With SelfVerify function for reduced maintenance/testing and increased reliability
- Housing of marine grade aluminium alloy
- Designed to meet the requirement of the major maritime classification societies
- CENELEC approved for use in hazardous areas
- ATEX approved

### Description / Application

BD-505/EXD is a point heat detector for use in hazardous area zone 1 or 2. The detector is designed for use with the interactive fire alarm systems. The SelfVerify function ensures the highest grade of reliability. All units comprising this function are automatically tested with a calibrated test once every 24 hours. The detector is suitable for use in different applications including turbine rooms, flammable material stores, paint stores etc.

BD-505/EXD can be delivered for three different alarm temperature settings varying from 60 to 90 °C.

See reverse for ordering information.



### Principle

The construction is based on the well-proven DETECT-A-FIRE precision temperature sensor installed in an explosion proof junction box containing a BNB-300 interface unit for adaption to the interactive fire detection system.

The sensor is a rate compensated device combining the best of fixed and rate of rise detectors.

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

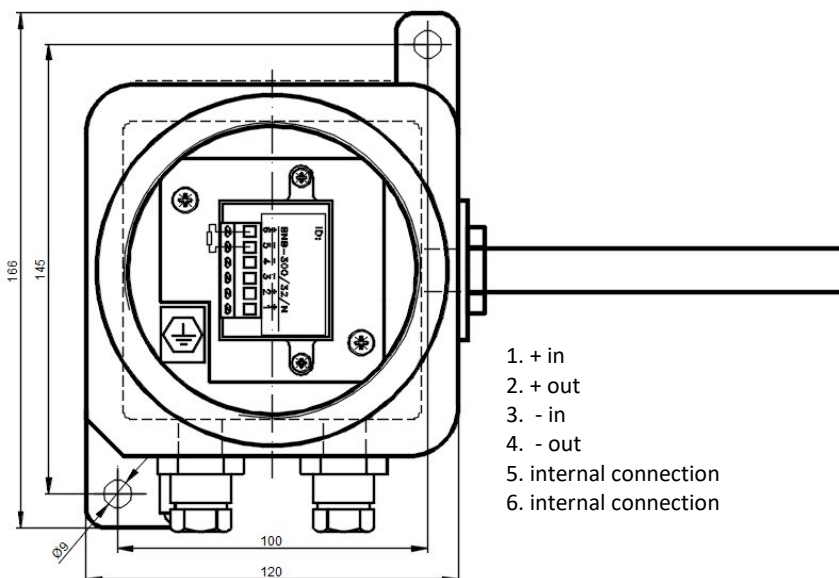
#### Related Drawing

No modifications permitted  
without reference to the  
Ex Responsible

Product Name	Part number	Description
BD-505/140EXD	116-BD-505/140EXD	Heat detector alarm temperature 60 °C (140°F)
BD-505/160EXD	116-BD-505/160EXD	Heat detector alarm temperature 70 °C (160°F)
BD-505/190EXD	116-BD-505/190EXD	Heat detector alarm temperature 90 °C (190°F)

Technical specifications	
Weight	1900 g
Material	Aluminium alloy / Stainless steel
Colour	Grey
Conduit entry	3 x M20 x 1,5 mm
Voltage	10 - 27 VDC
Current consumption Stand by:	< 0,3mA
Degree of protection	IP66
Working temperature	- 20 - + 70°C
Storage temperature	- 55 - + 70°C
Humidity (non condensing)	Max. 95% RH
Maintenance	None
Service	Replace if faulty
Type examination certificates	See website

## Connections / Dimensions (mm)



## Maintenance

- Power must be switched off before opening the enclosure
- Replace faulty units