

# Input unit with SelfVerify - BN-505/EXD

Interactive fire detection systems

Product datasheet

## Declaration of conformity and instructions

### Features

- Interactive
- Configurable input
- Interface unit for interfacing external units, clean contacts, alarm relays, etc., onto the interactive fire detection system
- Housing of marine grade aluminium alloy
- Monitored input
- Built in short circuit isolator
- Automatic addressing
- Proven technology
- With SelfVerify function for reduced maintenance/testing and increased reliability
- Designed to meet the requirements of the major maritime classification societies
- CENELEC approved for use in hazardous areas
- ATEX approved

### Applications

BN-505/EXD is an input unit for use in hazardous area zone 1 or 2. The input unit is designed for use with the interactive fire detection system. The BN-500/EXD is suitable for interfacing of all kinds of alarm contacts onto the interactive fire detection system. It is often used as a general interface for EX approved call points etc. in order to avoid costly approvals for each type of equipment.

Applications include:

- Alarm pushbuttons
- Sprinkler contacts, etc.

### Principle

Monitoring of input signal level. Can be configured to operate at different levels:

- Normally open contact. Closing of contact (short circuiting of input) will give alarm. Monitored for open circuit
- Normally open contact with alarm resistor. Closing of contact (910 Ohm on input) will give alarm. Monitored for open and short circuit on input

Note:

Cannot be used with conventional heat detectors or any unit requiring working voltage.

SelfVerify: the unit's ability to initiate alarm signal is regularly checked.



Technical specifications	
Weight	1750 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
Certificate	NEMKO 04ATEX1406
EX parameter	Ex II 2 (3) G EEx d [nL IIB] IIC T6 Ta: 70°C
Directives and standards	Atex 94/9/EC EN 50014 EN 50018 89/336/EEC (EMC) Emission: EN 50081-1: 1992 Immunity: EN 50130-4: 1995 EN: 61000-6-2: 1999



Part number	Description
116-BN-505/EXD	Input unit for hazardous area

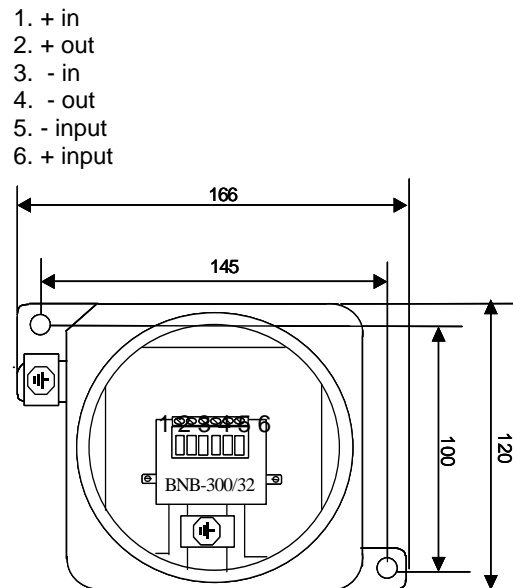
**Instructions for use in hazardous area**

- Installation must be performed by qualified personnel
- Electrical installation design must be according to IEC 60079-14, or local regulations
- Cable glands must be certified EEx d
- Only fully intact detectors must be installed
- Compliance to National safety regulations must be observed

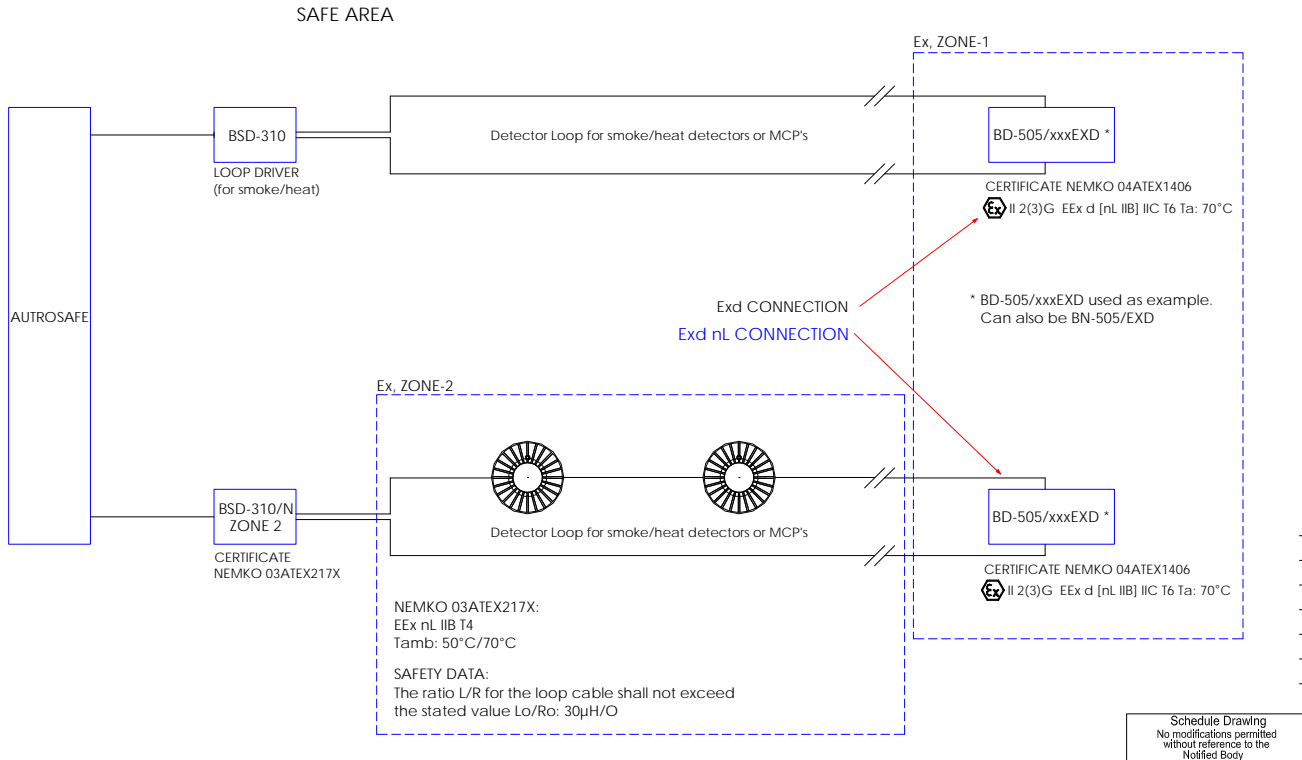
**Maintenance**

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

**Connections / Dimensions (mm)**



**Control Drawing Exd and Exd nL Installation**



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