

Input unit with SelfVerify - BN-500/EX

Interactive fire detection systems

Product datasheet

Declaration of conformity and instructions

Features

- Interactive
- Configurable input N.O. or N.C
- Interface unit for interfacing external units, clean contacts, alarm relays etc. onto the interactive fire detection system
- Monitored input
- Short circuit isolator in each unit
- Automatic addressing
- Proven technology
- With SelfVerify function for reduced maintenance/testing and increased reliability
- Designed to meet the requirement of the major maritime classification societies.

Applications

BN-500/EX is an input unit for use in hazardous area zone 0, 1, 2. It must be connected to the approved barrier BZ-500. The input unit is used to interface different types of signal devices of ON/OFF type onto the detector loop. The unit has been designed for use with Autronica's interactive fire detection systems, and comprise the SelfVerify function. This function ensures the highest grade of reliability and reduces the need for manual testing, because all units comprising this function are automatically checked once every 24 hours.

Application includes:

- Alarm pushbuttons
- Detectors with relay contact outputs
- Sprinkler contacts etc.

Schedule Drawing

No modifications permitted without reference to the Notified Body



Principle

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

- Open contact
- Closed contact
- Monitored by end of line resistor

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.

Versions

- BN-300* Input unit with SelfVerify
- BN-500/EX Input unit with SelfVerify. Exia version for use in all zones
- BN-500/N* Input unit with SelfVerify. Exn version for use in zone 2 only

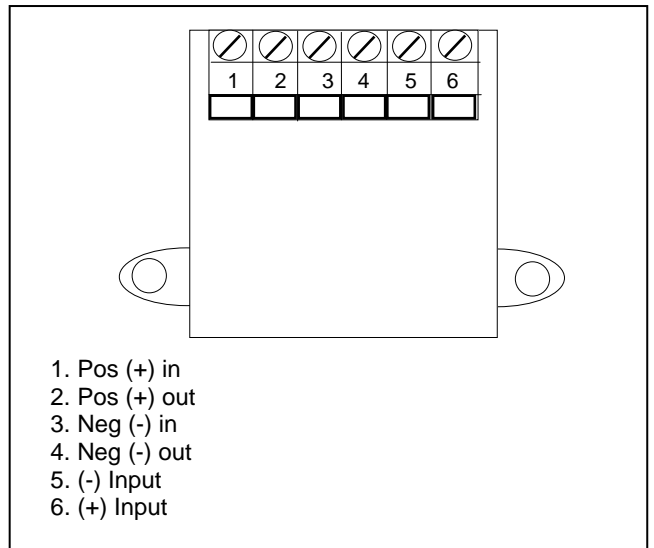
* See separate datasheet.

Technical specifications	
Weight	175 g
Material	Thermo plastic
Colour	Light grey
Input function	Configurable
Max. capacitance on input	30 nF
Voltage	10 - 27 VDC
Current consumption: Stand by	0,3 mA
Environm.. requirement	EN 54-5/EN 54-7
Degree of protection: Membr. inlets PG-inlets (PG-13,5)	IP54 IP67
Working temperature	- 20 - +70 °C
Storage temperature	-55 - +70 °C
Humidity (non condensing)	Max. 95 % RH
Maintenance	None
Service	Replace if faulty
Certificates	See website
Notified body	Nemko-Oslo-Norway ID No. 0470
Type examination certificate	NEMKO 03ATEX218X IECEX NEM 11.0009X
Directives and standards	94/9/EC (ATEX) IEC 60079-0:2007 IEC 60079-11:2006 IEC 60079-26:2006 EN 60079-0:2009 EN 60079-11:2007 EN 60079-26:2007 2004/108/EC (EMC) Emission: EN 50081-1:1992 Immunity: EN 50130-4:1995 EN 61000-6-2:1999
Ex parameters	Ex II 1G Ex ia IIC T5 Ga $U_i = 15,75\text{V}$ $I_i = 63,5\text{mA}$ $C_i = 21,6\text{nF}$ $L_i = 0$ $P_i = 0,44\text{W}$ $P_o = 0,36\text{W}$ $C_o = 20\text{nF}$ $L_o/P_o = 50\Omega / \mu\text{H}$

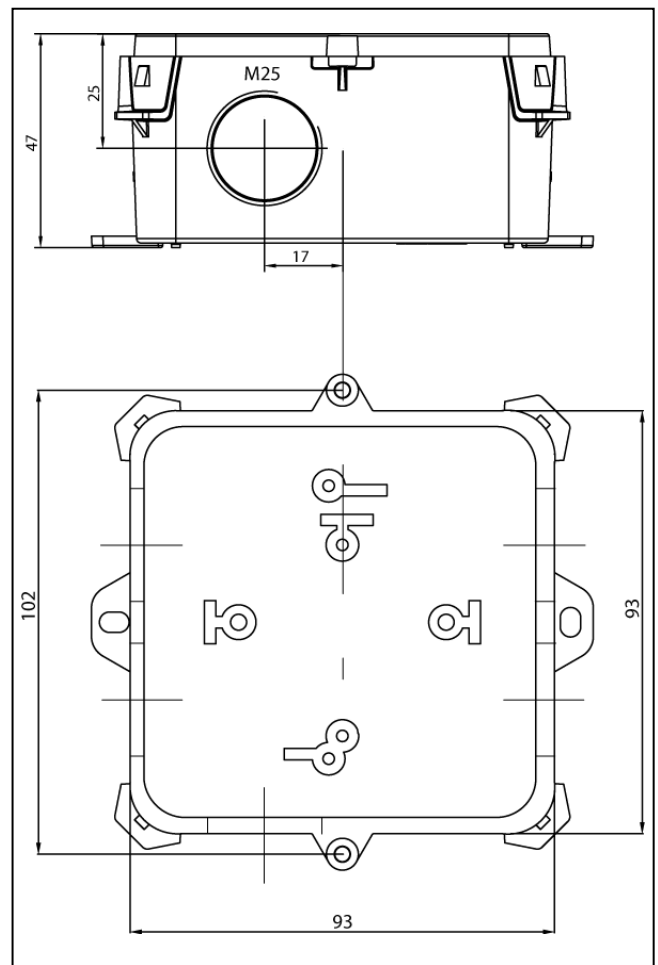
Part number	Description
116-BN-500/EX	Input unit for use in hazardous areas

Managing Director Mr. Frode Lund

Connections



Dimensions (mm)



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