

Intrinsic safety converter BXNT

- Approval [EEx ia] IIC ATEX II (1) G/D
- Main power 230 V AC
- Input and output: 4-20 mA
- DIN rail mounting



CE 0081  II (1) G/D

FUNCTION

This converter (input s.i., output non s.i.) with galvanic insulation allows powering of measuring loop or conversion of analogue signal from a transmitter (passive or active) installed in a hazardous area.

TECHNICAL FEATURES

Measuring loop	1
Main power	230 V AC $\pm 10\%$ / 48 ... 62 Hz <i>(indicator of powered unit) by a green LED on front board)</i>
Consumption	≤ 2.7 W
Mounting	In safe area Input: s.i. - Output not s.i.
Loop powered For transmitter, 2 wires, active or passive	≥ 15 V DC with current of 21 mA
Input signal from hazardous area	0/4-20 mA
Output signal In and to safe area	0/4-20 mA
Input impedance	
Current	$50 \Omega \pm 2\%$
Voltage	> 2 M Ω
Load resistance	
Current	≤ 800 W
Voltage	≥ 10 kW
Accuracy	$\leq 0.2\%$ of F. S.
Linearity	$\leq \pm 0.1\%$
Drifts	
Voltage powering	$\leq \pm 0.01\%$ / % Ualim
Output resistance	$\leq \pm 0.01\%$ / 100 Ω
Temperature influence	≤ 150 ppm / $^{\circ}\text{C}$
Response time	≤ 350 ms
Galvanic insulation between Input / Output / Supply	2500 V AC / 50 Hz
Installation	In safe area
Case	In ABS
Mass	200 g
Storage temperature	-25 ... +70 $^{\circ}\text{C}$
Operating temperature	-20 ... +60 $^{\circ}\text{C}$
% R. H.	5 ... 95% (without condensing)
Connectors	Plug-in, clamp terminals
Fitting	Rail acc. EN 50022

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BXNT

04-07-2018

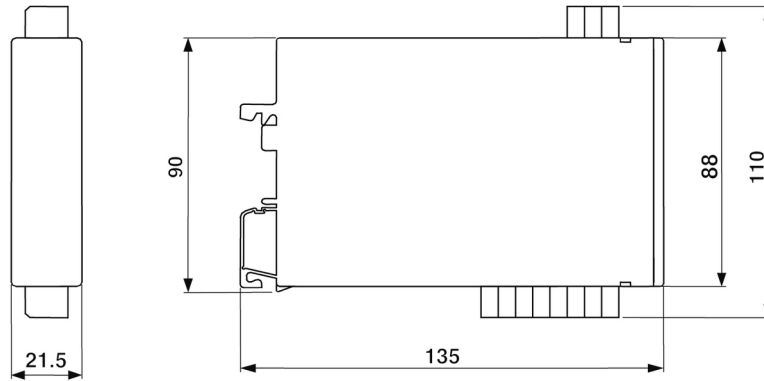
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CERTIFICATES:

CEM	EN/CEI 61326 & CEI 61000-6-2
DBT	EN/CEI 61010-1
Intrinsic safety	EN/CEI 60079-11 ; EN/CEI 60079-0 [Ex ia] I or [Ex ia] IIC or [Ex ia] IIB [Ex iaD] I or [Ex iaD] IIC or [Ex iaD] IIB
ATEX certificate	LCIE 02 ATEX 6104X
IECEX Certificate	IECEX LCI 09.0013X

DIMENSIONS**CODE NUMBER AND REFERENCE**

Code	Reference	Description
235 100	BXNT / 230 V AC (48...62 Hz)	Converter Input s.i. / Output non s.i. – Approval [EEx ia] IIC ATEX II (1) G/D

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