



## 19. Temperature inputs – converter

Principle of a galvanic insulation and reminders concerning I.S.

General specifications for galvanic insulation interfaces

Selection guide

Use of galvanic insulation

Table of equivalent references according to type of assembly

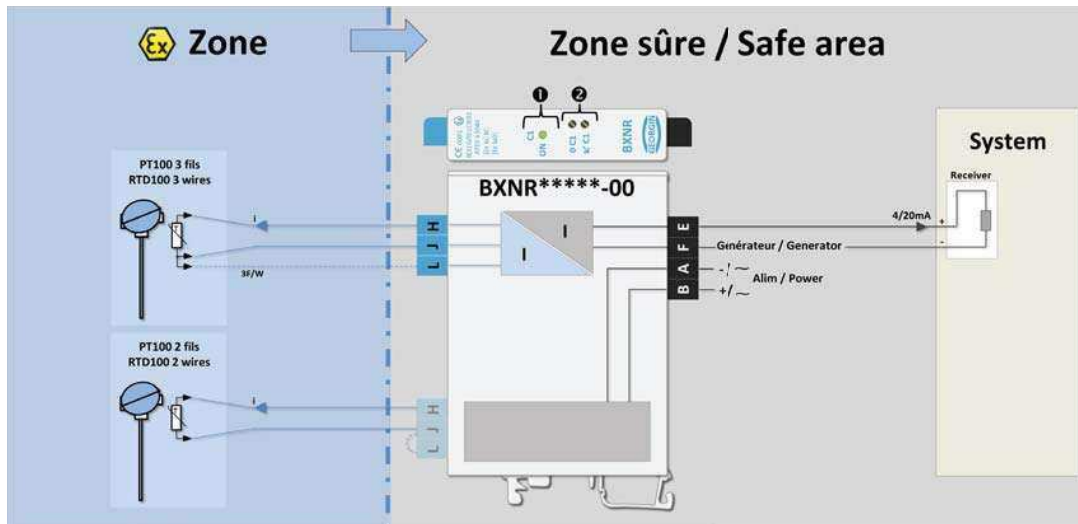
Ref.	Description (see technical data sheet for further information)					IS parameters ATEX marking		
BXNR	The BXNR is a temperature converter dedicated to RTD100 2-wire or 3-wire probes. When ordering, specify the input scale and output.							
	Type	Input	Option		Power supply	Output		
BXNR	**	Input scale See technical data sheet	00	No option	0	230 V AC	00	Active 4/20 mA
			B0	Screw terminals	1	110 V AC	03	Active 0/20mA
					3	24 V DC	08	0/5 V
					4	48 V DC	A0	Passive 4/20 mA
							XX	Others on request
	<ul style="list-style-type: none"> <li>① Presence of voltage indicated by a green LED</li> <li>② Adjustment potentiometers for the source and the curve of the 4/20 mA output</li> </ul>							
	<b>HJ terminals:</b> <b>U<sub>o</sub>:</b> 12.5V <b>I<sub>o</sub>:</b> 11mA <b>P<sub>o</sub>:</b> 66mW <b>C<sub>o</sub>,</b> IIC: 1200 nF <b>L<sub>o</sub>,</b> IIC: 300 mH  <b>JL terminals:</b> <b>U<sub>o</sub>:</b> 12.5V <b>I<sub>o</sub>:</b> 12mA <b>P<sub>o</sub>:</b> 75mW <b>C<sub>o</sub>,</b> IIC: 1200 nF <b>L<sub>o</sub>,</b> IIC: 200 mH  <b>Marking:</b> II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X							
BXNC	The BXNC is a temperature converter dedicated to thermocouple probes. When ordering, specify the input scale and output.							
	Type	Input	Option		Power supply	Output		
BXNC	**	Input scale See technical data sheet	00	No option	0	230 V AC	00	Active 4/20 mA
			B0	Screw terminals	1	110 V AC	03	Active 0/20mA
					3	24 V DC	08	0/5 V
					4	48 V DC	A0	Passive 4/20 mA
							XX	Others on request
	<ul style="list-style-type: none"> <li>① Presence of voltage indicated by a green LED</li> <li>② Adjustment potentiometers for the source and the curve of the 4/20 mA output</li> </ul>							
	<b>HJ terminals:</b> <b>U<sub>o</sub>:</b> 12.5 V <b>I<sub>o</sub>:</b> 2.4 mA <b>P<sub>o</sub>:</b> 15 mW <b>C<sub>o</sub>,</b> IIC: 1200 nF <b>L<sub>o</sub>,</b> IIC: 1000 mH  <b>Marking:</b> II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X							



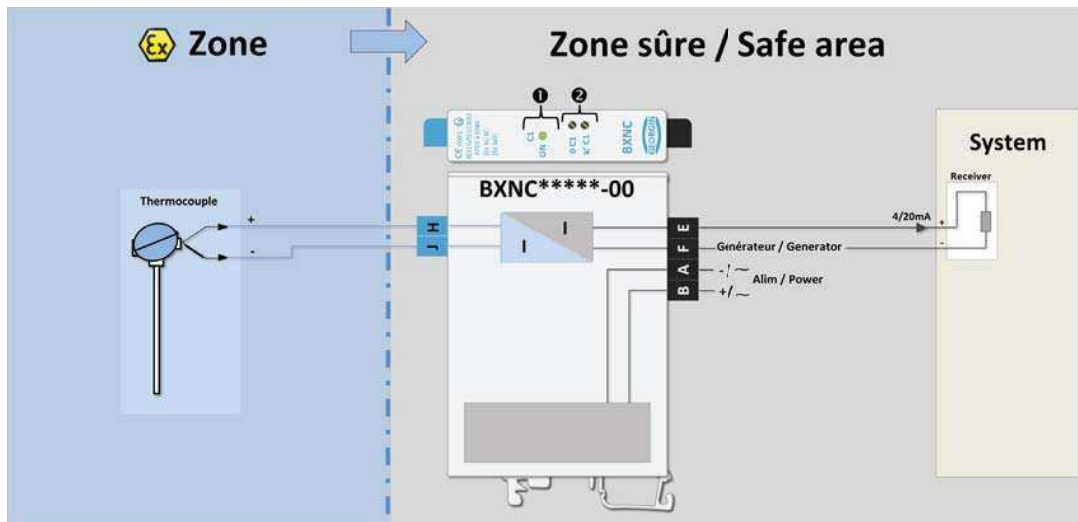


Explanatory diagram

I/O



1 RTD100 Input / 1 Output



1 TC Input / 1 Output

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