



IS interfaces

1. Analog inputs – standard




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

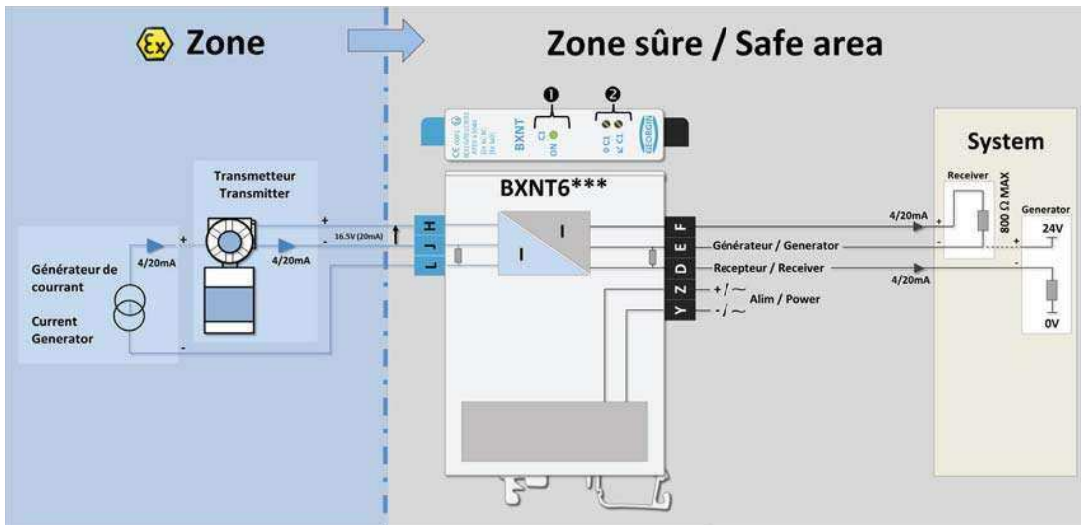
Ref.	Description (see technical data sheet for further information)	IS parameters ATEX marking												
BXNT6	<p>The device represented is an intrinsically safe, galvanic-insulated power supply for transmitters. For the 2-wire transmitter (connection between H+ and J- terminals) the device powers the 4/20 mA sensor (16.5 V at 20 mA). If the BXNT6 is connected to a current generator (J+ and L-), it does not supply power to the loop. The 4/20 mA output can be connected as active or passive, depending on whether the controller powers the loop or not. (Terminals E+ and F-: The BXNT6 supplies voltage to the controller input). The input signal (HJ) is read and transmitted to the safe zone through precise analog processing. This device is a triple galvanic insulation (Input / Output / Module power supply).</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Option</th> <th>Power supply</th> </tr> </thead> <tbody> <tr> <td rowspan="2">BXNT6</td> <td>00</td> <td>No option</td> <td>E</td> <td>110/230 V AC</td> </tr> <tr> <td>B0</td> <td>Screw terminals</td> <td>2</td> <td>24/48 V DC</td> </tr> </tbody> </table> <p> <ol style="list-style-type: none"> Presence of voltage indicated by a green LED Adjustment potentiometers for the source and the curve of the 4/20 mA output </p>	Type	Option	Power supply	BXNT6	00	No option	E	110/230 V AC	B0	Screw terminals	2	24/48 V DC	<p>HJ terminals: U_o: 27.5 V I_o: 80.1 mA P_o: 550.72 mA Co, IIC: 86 nF Lo, IIC: 2.8 mH</p> <p>Marking: II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X</p> 
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BXMT	<p>When space savings are necessary, it is possible to use the two-channel version. The two channels are independent and each have separate insulation.</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Option</th> <th>Power supply</th> </tr> </thead> <tbody> <tr> <td rowspan="2">BXMT1</td> <td>00</td> <td>No option</td> <td>E</td> <td>110/230 V AC</td> </tr> <tr> <td>B0</td> <td>Screw terminals</td> <td>2</td> <td>24/48 V DC</td> </tr> </tbody> </table> <p> <ol style="list-style-type: none"> Presence of voltage indicated by a green LED. (1 LED per output channel) Adjustment potentiometers for the source and the curve of the 4/20 mA output. (1 set of potentiometers per channel) </p>	Type	Option	Power supply	BXMT1	00	No option	E	110/230 V AC	B0	Screw terminals	2	24/48 V DC	<p>HJ terminals: U_o: 27.5 V I_o: 80.1 mA P_o: 550.72 mA Co, IIC: 86 nF Lo, IIC: 2.8 mH</p> <p>Marking: II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X</p> 
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BXLT	<p>To duplicate the 4/20 mA output, it is possible to use this 1-input / 2-output version. For this version, the two outputs are isolated from each other and from the input.</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Option</th> <th>Power supply</th> </tr> </thead> <tbody> <tr> <td rowspan="2">BXLT1</td> <td>00</td> <td>No option</td> <td>E</td> <td>110/230 V AC</td> </tr> <tr> <td>B0</td> <td>Screw terminals</td> <td>2</td> <td>24/48 V DC</td> </tr> </tbody> </table> <p> <ol style="list-style-type: none"> Presence of voltage indicated by a green LED. (1 LED per output channel) Adjustment potentiometers for the source and the curve of the 4/20 mA output. (1 set of potentiometers per channel) </p>	Type	Option	Power supply	BXLT1	00	No option	E	110/230 V AC	B0	Screw terminals	2	24/48 V DC	<p>HJ terminals: U_o: 27.5 V I_o: 80.1 mA P_o: 550.72 mA Co, IIC: 86 nF Lo, IIC: 2.8 mH</p> <p>Marking: II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X</p> 
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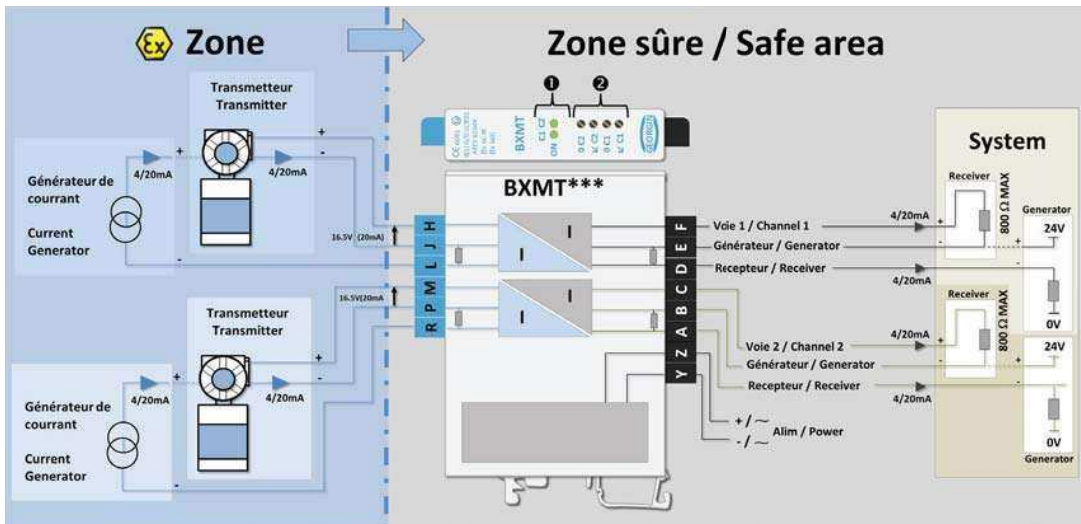


Explanatory diagram

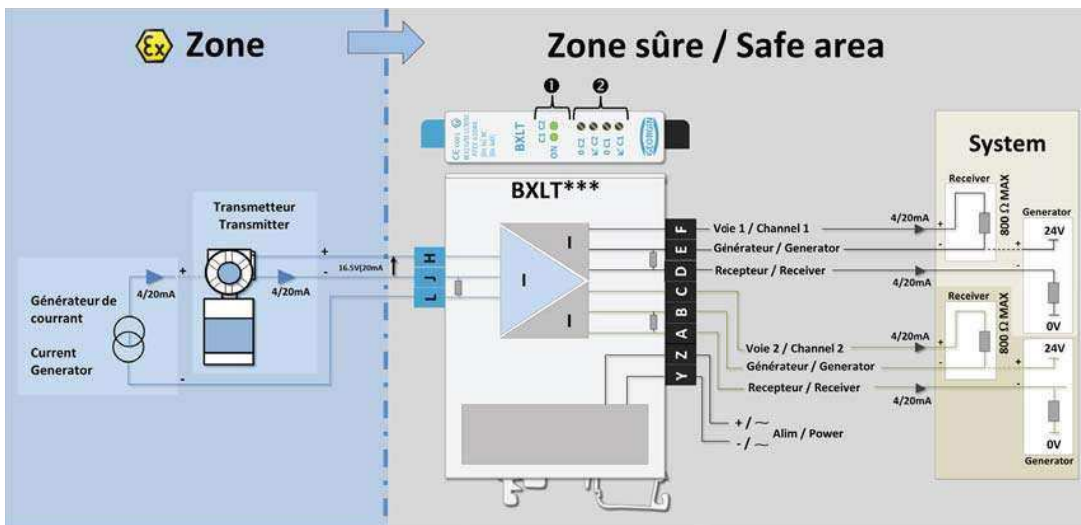
I/O



1 Input / 1 Output



2 Inputs / 2 Outputs



1 Input / 2 Output

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