



IS interfaces

9. Analog 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

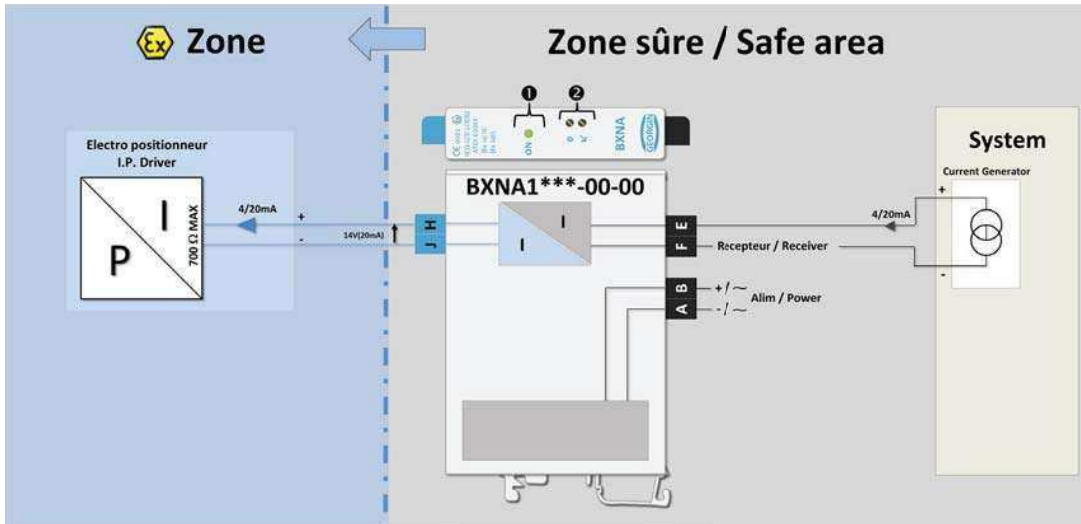
Ref.	Description (see technical data sheet for further information)	IS parameters ATEX marking																																						
BXNA1***-00-00	<p>The BXNA1 is an intrinsically safe, galvanic insulated converter for actuators. It is used to transmit a 4/20 mA signal (or other depending on the model selected) to a hazardous area.</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Model</th> <th>Power supply</th> <th>Input</th> <th>Output</th> </tr> </thead> <tbody> <tr> <td rowspan="2">BXNA1</td> <td>00 No option</td> <td>0 230 V AC</td> <td>00 4/20 mA</td> <td rowspan="2">00 4/20 mA</td> </tr> <tr> <td>B0 Screw terminals</td> <td>1 110 V AC</td> <td>02 0/5 mA</td> </tr> <tr> <td></td> <td></td> <td>3 24 V DC</td> <td>04 0/20 mA</td> <td></td> </tr> <tr> <td></td> <td></td> <td>4 48 V DC</td> <td>08 -10/+10V</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>11 0/5 V</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>13 0/10V</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>XX Others on request</td> <td></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	Model	Power supply	Input	Output	BXNA1	00 No option	0 230 V AC	00 4/20 mA	00 4/20 mA	B0 Screw terminals	1 110 V AC	02 0/5 mA			3 24 V DC	04 0/20 mA				4 48 V DC	08 -10/+10V					11 0/5 V					13 0/10V					XX Others on request		<p>HJ terminals: U_o: 23.5 V I_o: 97 mA P_o: 560 mW C_o, IIC: 132 nF L_o, IIC: 5 mH</p> <p>Marking: II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X</p> 
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BXNAI2***	<p>The BXNAI2 is an intrinsically safe, galvanic-insulated converter for intelligent actuators (HART protocol). Identical to the BXNA1, it is only available in a 4/20 mA / 4/20 mA version as it is dedicated to actuators that use the HART protocol.</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Model</th> <th>Power supply</th> </tr> </thead> <tbody> <tr> <td rowspan="2">BXNAI2</td> <td>00 No option</td> <td>0 230 V AC</td> </tr> <tr> <td>B0 Screw terminals</td> <td>1 110 V AC</td> </tr> <tr> <td></td> <td></td> <td>3 24 V DC</td> </tr> <tr> <td></td> <td></td> <td>4 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	Model	Power supply	BXNAI2	00 No option	0 230 V AC	B0 Screw terminals	1 110 V AC			3 24 V DC			4 48 V DC	<p>HJ terminals: U_o: 23.5 V I_o: 97 mA P_o: 560 mW C_o, IIC: 132 nF L_o, IIC: 5 mH</p> <p>Marking: II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X</p> 																								
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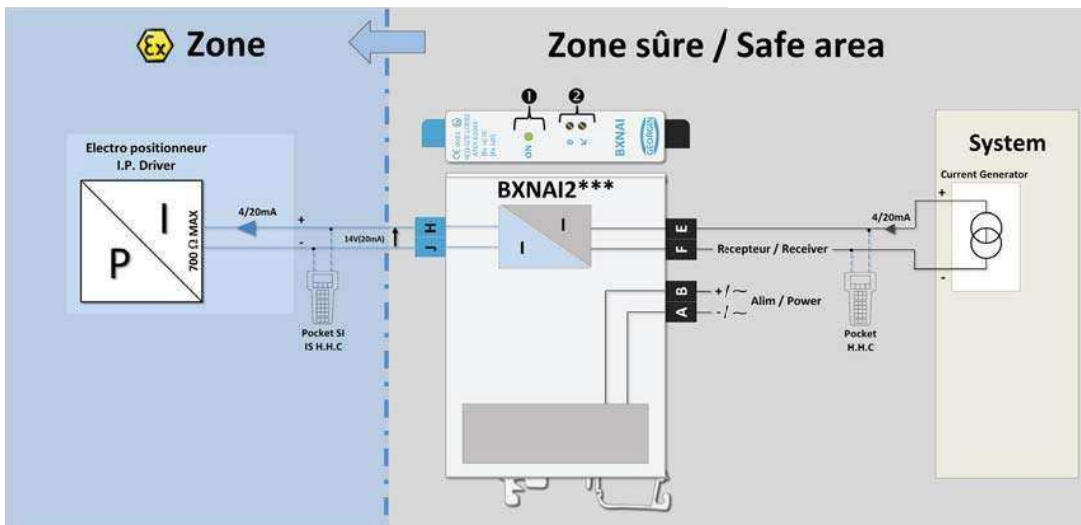


Explanatory diagram

I/O



1 Input / 1 Output



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