



IS interfaces

10. Analog output – isolator

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

General specifications for galvanic insulation interfaces

Selection guide

Use of galvanic insulation

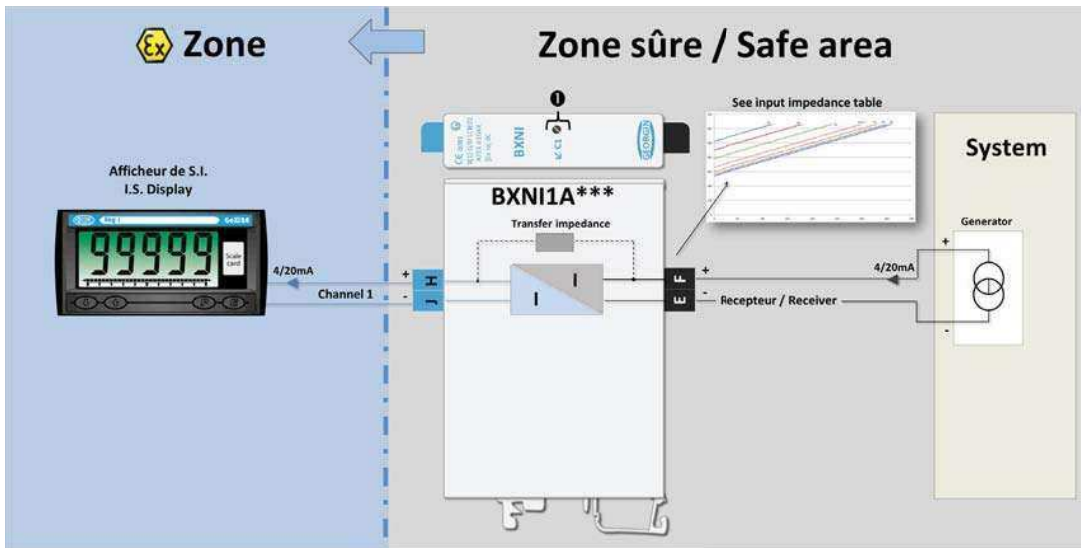
Table of equivalent references according to type of assembly

Ref.	Description (see technical data sheet for further information)	IS parameters ATEX marking																																																								
BXNI1A	<p>The BXNI1A is a passive, self-powered 4/20 mA signal isolator. It is used to send a 4/20 mA signal generated in a safe area into a hazardous area. When the signal is transferred from the safe area to the hazardous area, the transfer impedance specific to the BXNI1A (see example on p. 34-35) must be taken into account.</p> <table border="1"> <thead> <tr> <th>Type</th> <th colspan="2">Number of channels</th> <th colspan="2">Model</th> <th colspan="2">Option</th> </tr> </thead> <tbody> <tr> <td>BXNI</td> <td>1</td> <td>1 channel</td> <td>A1</td> <td>Impedance: 510Ω</td> <td>00</td> <td>No option</td> </tr> <tr> <td></td> <td></td> <td></td> <td>A2</td> <td>Impedance: 450Ω</td> <td>B0</td> <td>Screw terminals</td> </tr> <tr> <td></td> <td></td> <td></td> <td>A3</td> <td>Impedance: 390Ω</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>A4</td> <td>Impedance: 330Ω</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>A5</td> <td>Impedance: 270Ω</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>A6</td> <td>Impedance: 281Ω</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>A7</td> <td>Impedance: 300Ω</td> <td></td> <td></td> </tr> </tbody> </table> <p>① Adjustment potentiometers of the 4/20 mA output curve (1 per channel).</p>	Type	Number of channels		Model		Option		BXNI	1	1 channel	A1	Impedance: 510Ω	00	No option				A2	Impedance: 450Ω	B0	Screw terminals				A3	Impedance: 390Ω						A4	Impedance: 330Ω						A5	Impedance: 270Ω						A6	Impedance: 281Ω						A7	Impedance: 300Ω			<p>HJ terminals: See technical data sheet (depends on the version)</p> <p>Marking: II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X</p>
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BXNI2A	<p>2-channel version</p> <table border="1"> <thead> <tr> <th>Type</th> <th colspan="2">Number of channels</th> <th colspan="2">Model</th> <th colspan="2">Option</th> </tr> </thead> <tbody> <tr> <td>BXNI</td> <td>2</td> <td>2 channels</td> <td>A1</td> <td>Impedance: 510Ω</td> <td>00</td> <td>No option</td> </tr> <tr> <td></td> <td></td> <td></td> <td>A2</td> <td>Impedance: 450Ω</td> <td>B0</td> <td>Screw terminals</td> </tr> <tr> <td></td> <td></td> <td></td> <td>A3</td> <td>Impedance: 390Ω</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>A4</td> <td>Impedance: 330Ω</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>A5</td> <td>Impedance: 270Ω</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>A6</td> <td>Impedance: 281Ω</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>A7</td> <td>Impedance: 300Ω</td> <td></td> <td></td> </tr> </tbody> </table> <p>① Adjustment potentiometers of the 4/20 mA output curve (1 per channel).</p>	Type	Number of channels		Model		Option		BXNI	2	2 channels	A1	Impedance: 510Ω	00	No option				A2	Impedance: 450Ω	B0	Screw terminals				A3	Impedance: 390Ω						A4	Impedance: 330Ω						A5	Impedance: 270Ω						A6	Impedance: 281Ω						A7	Impedance: 300Ω			<p>HJ terminals: See technical data sheet (depends on the version)</p> <p>Marking: II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X</p>
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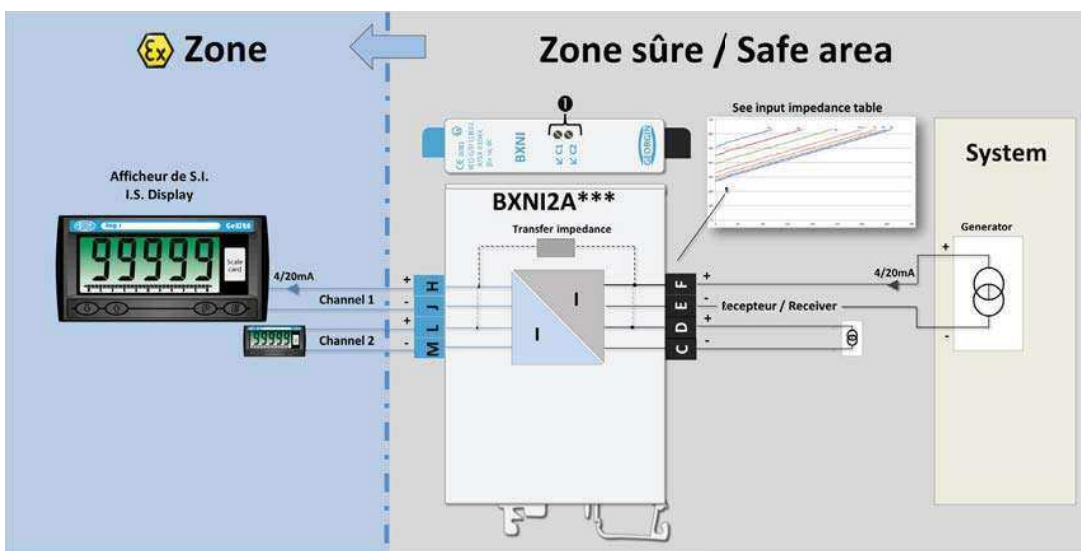


Explanatory diagram

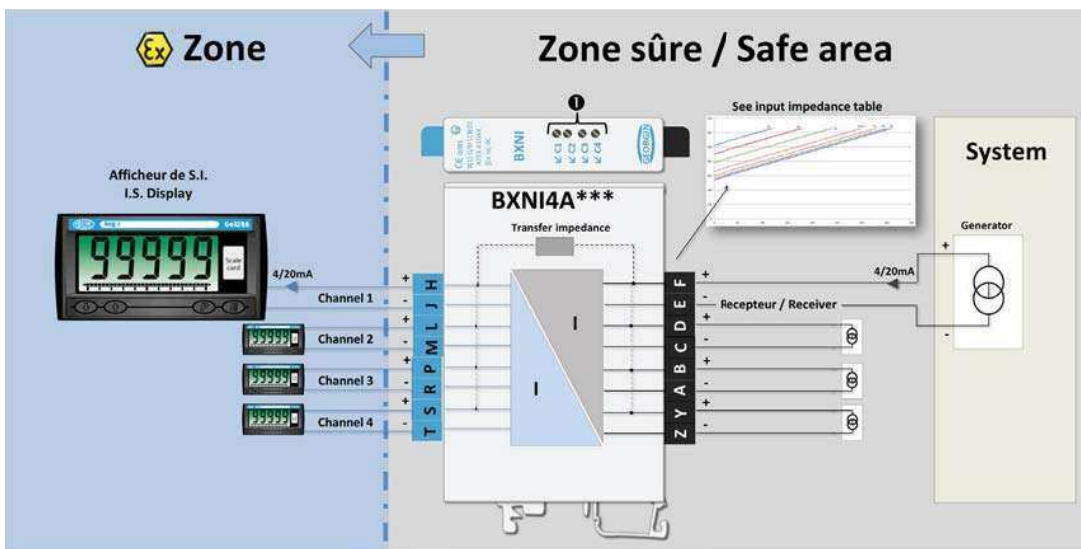
I/O



1 Input / 1 Output



2 Inputs / 2 Outputs



4 Inputs / 4 Outputs

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