



# IS interfaces

## 5. Digital inputs – relay outputs




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

General specifications for galvanic insulation interfaces

Selection guide

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Table of equivalent references according to type of assembly

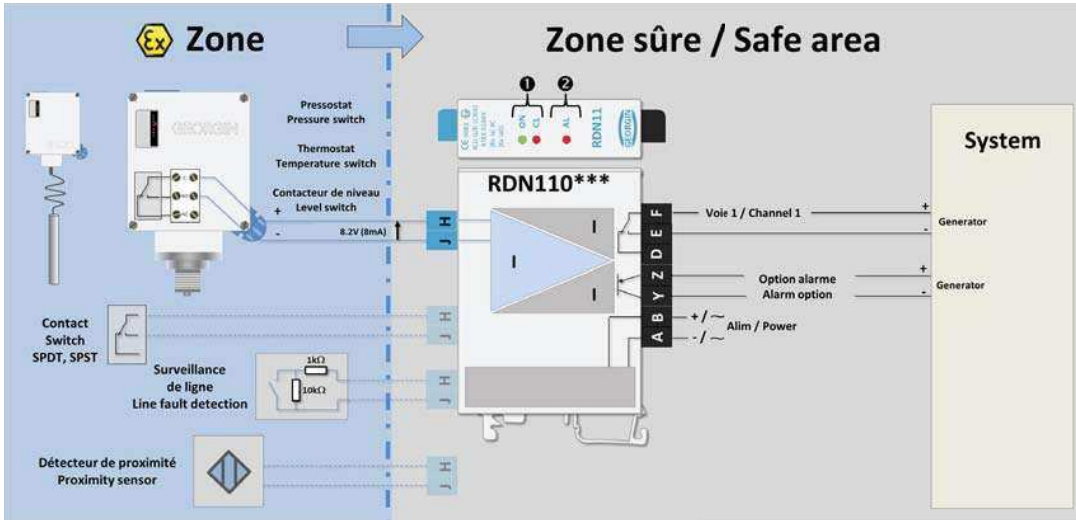
Ref.	Description (see technical data sheet for further information)	IS parameters ATEX marking																										
RDN110	<p>The RDN is an intrinsically safe, galvanic-isolated relay for switches or proximity sensors. The RDN supplies the switch in a hazardous area (8.2 V at 8 mA). The relay output (F E) is voltage-free.</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Number of channels</th> <th>Options</th> <th>Power supply</th> </tr> </thead> <tbody> <tr> <td rowspan="5">RDN</td> <td rowspan="5">110 1 channel 1 relay output Inverter contact</td> <td>00</td> <td>No alarm</td> <td>0</td> <td>230 V AC</td> </tr> <tr> <td>AL</td> <td>With alarm</td> <td>1</td> <td>110 V AC</td> </tr> <tr> <td>B0</td> <td>Screw terminals</td> <td>2</td> <td>24/48 V DC</td> </tr> <tr> <td>BL</td> <td>Alarm + screw terminals</td> <td>7</td> <td>12 V DC</td> </tr> <tr> <td>--</td> <td>Other options (see technical data sheet)</td> <td></td> <td></td> </tr> </tbody> </table> <p> <ol style="list-style-type: none"> <li>Green LED to indicate power is supplied to the module. Red LED to indicate activation of the output relay.</li> <li>Red LED (AL) to indicate that the alarm transistor is conductive. It becomes conductive when the proximity sensor (Namur) input is outside of its operating range.</li> </ol> </p>	Type	Number of channels	Options	Power supply	RDN	110 1 channel 1 relay output Inverter contact	00	No alarm	0	230 V AC	AL	With alarm	1	110 V AC	B0	Screw terminals	2	24/48 V DC	BL	Alarm + screw terminals	7	12 V DC	--	Other options (see technical data sheet)			<p><b>HJ terminals:</b>  <b>U<sub>o</sub>:</b> 12 V  <b>I<sub>o</sub>:</b> 25 mA  <b>P<sub>o</sub>:</b> 150 mW  <b>Co:</b> 1410 nF  <b>Lo:</b> 45 mH</p> <p><b>Marking:</b>            II(1)G [Ex ia] IIC            II(1)D [Ex iaD] IIC            Certificate:            02ATEX6104X</p> 
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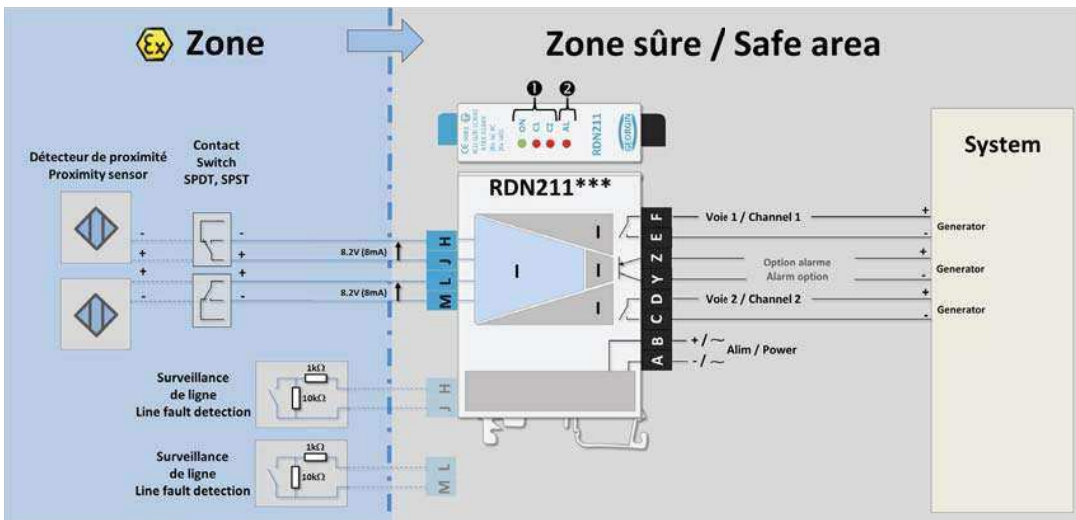


## Explanatory diagram

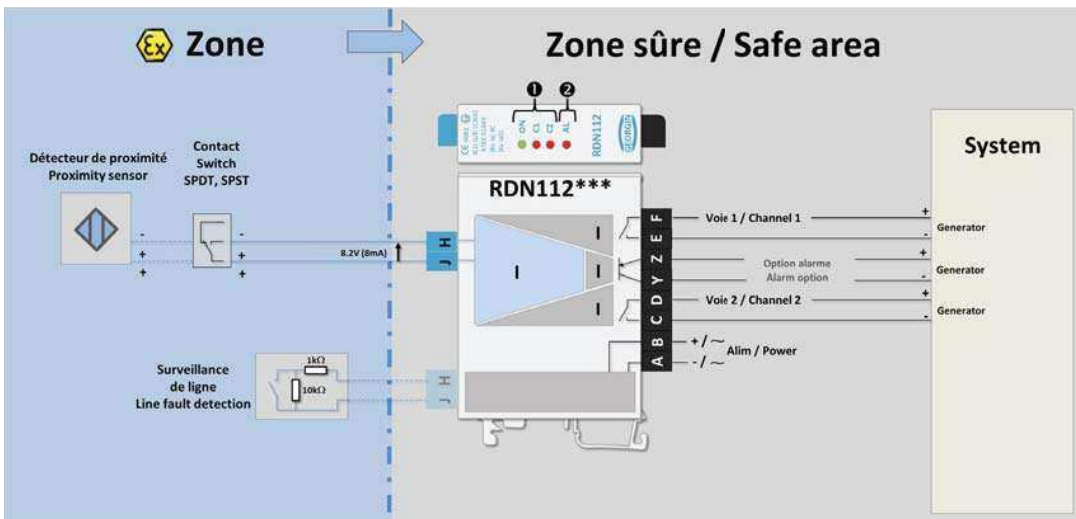
I/O



1 Input / 1 relay Output



2 Inputs / 2 relay Outputs



1 Input / 2 relay Outputs

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