



18. Digital outputs – relay output signal isolator

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

General specifications for galvanic insulation interfaces

Selection guide

Use of galvanic insulation

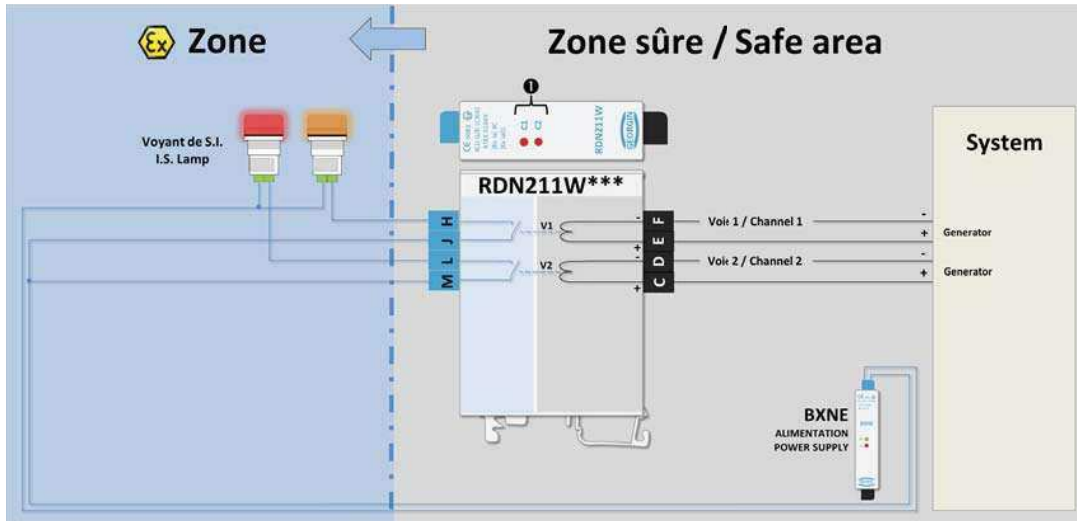
Table of equivalent references according to type of assembly

Ref.	Description (see technical data sheet for further information)	IS parameters ATEX marking																									
RDN211W	<p>The RDN211W is an intrinsically safe, galvanic insulated digital signal separator. This device does not have an external power supply. The output relays (HJ) or (LM) are controlled by an input voltage (E+F-) for channel 1 and (C+D-) for channel 2.</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Model</th> <th>Number of channels</th> <th>Options</th> <th>Power supply</th> </tr> </thead> <tbody> <tr> <td>RDN</td> <td>211</td> <td>W 2 channels</td> <td>00 Cage clamp terminals NO contact</td> <td>0 230 V AC</td> </tr> <tr> <td></td> <td></td> <td></td> <td>B0 Screw terminals NO contact</td> <td>1 110 V AC</td> </tr> <tr> <td></td> <td></td> <td></td> <td>01 Cage clamp terminals NC contact</td> <td>3 24 V DC</td> </tr> <tr> <td></td> <td></td> <td></td> <td>B1 Screw terminals NC contact</td> <td>4 48 V DC</td> </tr> </tbody> </table> <p>① Red LED for each channel indicating if the output relay is active or not.</p>	Type	Model	Number of channels	Options	Power supply	RDN	211	W 2 channels	00 Cage clamp terminals NO contact	0 230 V AC				B0 Screw terminals NO contact	1 110 V AC				01 Cage clamp terminals NC contact	3 24 V DC				B1 Screw terminals NC contact	4 48 V DC	<p>Maximum voltage on intrinsic safety circuit: 60 V</p> <p>Marking: II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X</p>
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RDN211V	<p>The RDN211V is an intrinsically safe, galvanic insulated digital signal separator. Identical to the RDN211W, the RDN211V has four channels.</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Model</th> <th>Number of channels</th> <th>Options</th> <th>Power supply</th> </tr> </thead> <tbody> <tr> <td>RDN</td> <td>211</td> <td>V 4 channels</td> <td>00 Cage clamp terminals NO contact</td> <td>3 24 V DC</td> </tr> <tr> <td></td> <td></td> <td></td> <td>B0 Screw terminals NO contact</td> <td>4 48 V DC</td> </tr> <tr> <td></td> <td></td> <td></td> <td>01 Cage clamp terminals NC contact</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>B1 Screw terminals NC contact</td> <td></td> </tr> </tbody> </table> <p>① Red LED for each channel indicating if the output relay is active or not.</p>	Type	Model	Number of channels	Options	Power supply	RDN	211	V 4 channels	00 Cage clamp terminals NO contact	3 24 V DC				B0 Screw terminals NO contact	4 48 V DC				01 Cage clamp terminals NC contact					B1 Screw terminals NC contact		<p>Maximum current on intrinsic safety circuit: 100 mA</p> <p>Marking: II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X</p>
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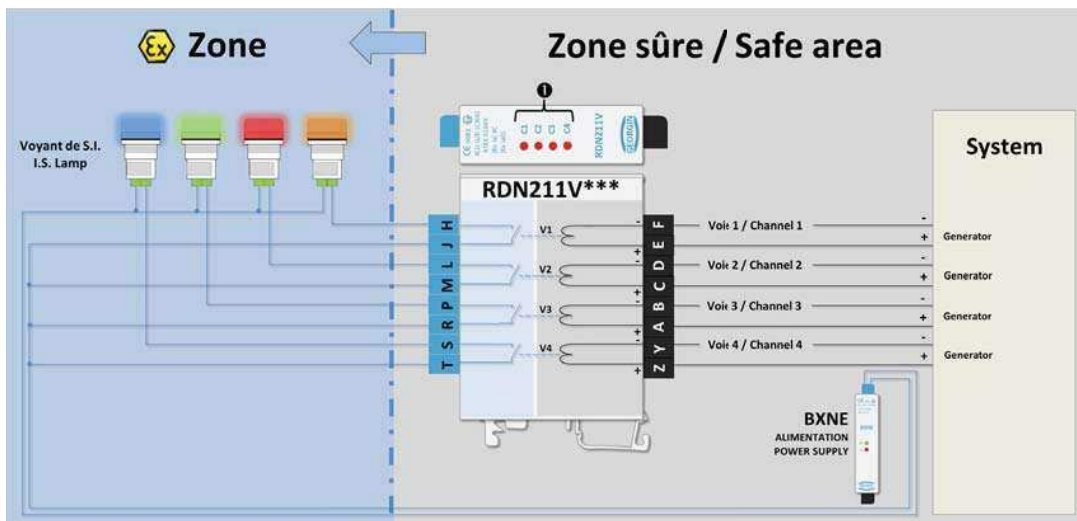


Explanatory diagram

I/O



2 opto-isolator channels



4 opto-isolator channels

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