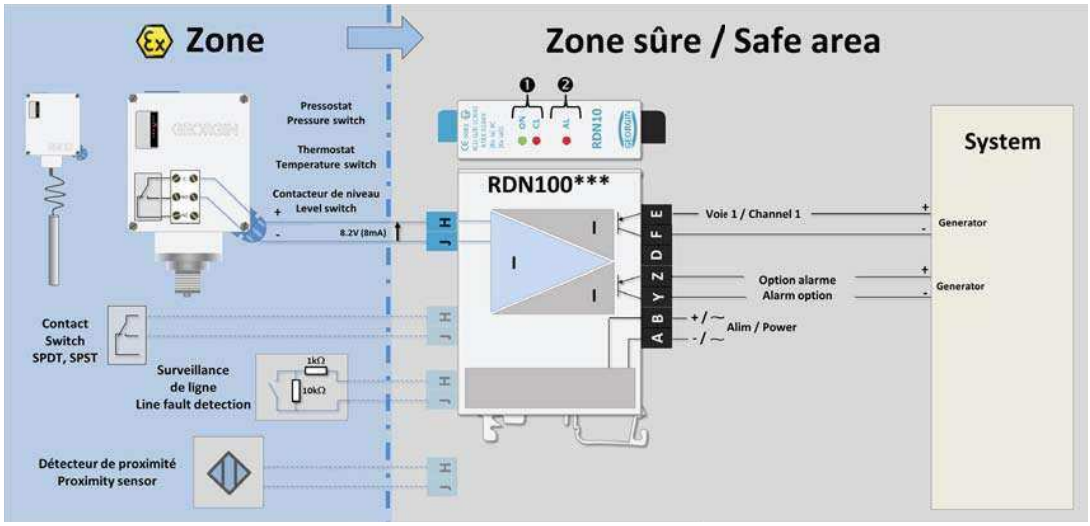
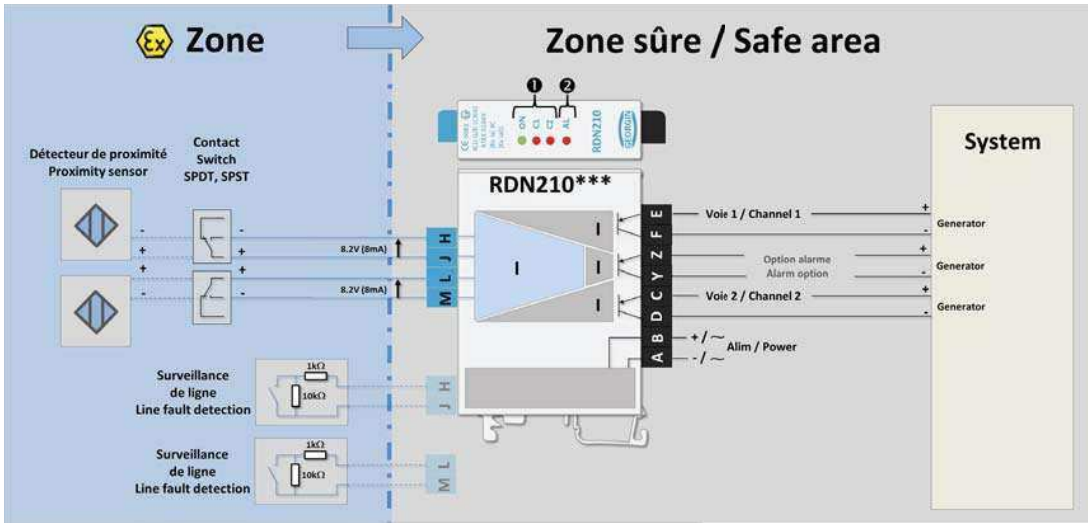
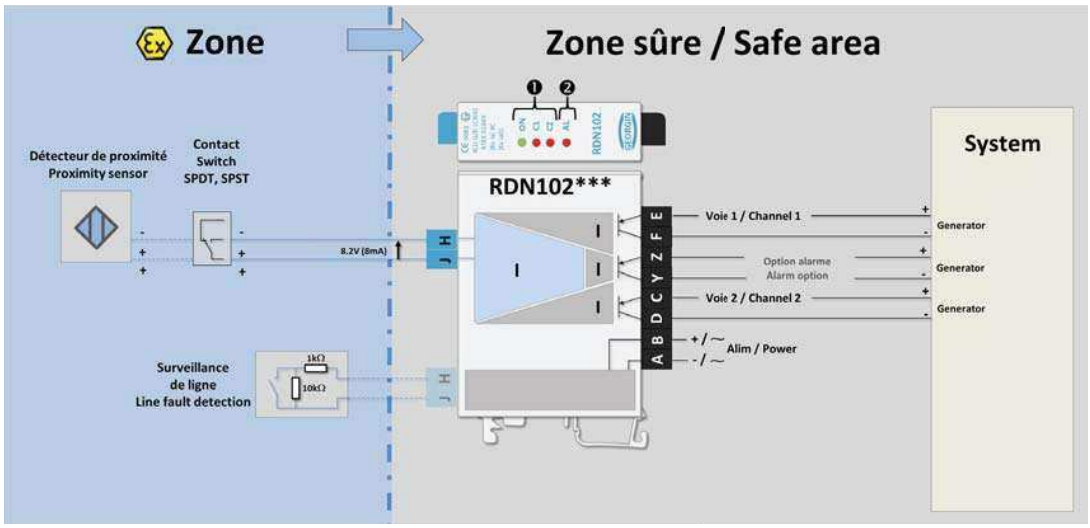
6. Digital inputs – transistor outputs

Ref.	Description (see technical data sheet for further information)	IS parameters ATEX marking
RDN100	The RDN is an intrinsically safe, galvanic-isolated relay for switches or proximity sensors. The RDN powers switches in a hazardous area (8.2 V at 8 mA). Here the relay output (F E) is transistor, in contrast to the RDN110 (equipped with a relay). Type: RDN Number of channels: 100 – 1 channel, 1 transistor output Options: 00 No alarm; AL With alarm; B0 Screw terminals; BL Alarm + screw terminals; - - Other options (see technical data sheet) Power supply: 0 230 V AC; 1 110 V AC; 2 24/48 V DC; 7 12 V DC ❶ Green LED to indicate power is supplied to the module. Red LED to indicate that the output transistor is conductive. ❷ 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.	**HJ terminals**: **Uo**: 12 V **Io**: 25 mA **Po**: 150 mW **Co**: 1410 nF **Lo**: 45 mH **Marking**: II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X SIL APPROVED
RDN210	Identical model to the RDN110 but with 1 input and 2 simultaneous outputs. Type: RDN Number of channels: 210 – 2 channels, 2 x 1 transistor outputs Options: 00 No alarm; AL With alarm; B0 Screw terminals; BL Alarm + screw terminals; - - Other options (see technical data sheet) Power supply: 0 230 V AC; 1 110 V AC; 2 24/48 V DC; 7 12 V DC ❶ Green LED to indicate power is supplied to the module. 2 x red LED to indicate that the output transistors (C1 and C2) are conductive. ❷ Red LED (AL) to indicate that the alarm transistor is conductive. The alarm is activated when one of the two proximity sensors (Namur) indicates a fault.	**HJ terminals**: **Uo**: 12 V **Io**: 25 mA **Po**: 150 mW **Co**: 1410 nF **Lo**: 45 mH **Marking**: II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X SIL APPROVED
RDN102	Identical model to the RDN110 but with 1 input and 2 simultaneous outputs. Type: RDN Number of channels: 102 – 1 channel, 2 x 1 transistor outputs Options: 00 No alarm; AL With alarm; B0 Screw terminals; BL Alarm + screw terminals; - - Other options (see technical data sheet) Power supply: 0 230 V AC; 1 110 V AC; 2 24/48 V DC; 7 12 V DC ❶ Green LED to indicate power is supplied to the module. 2 x red LED to indicate activation of the simultaneous output relays (C1 and C2). ❷ 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.	**HJ terminals**: **Uo**: 12V **Io**: 25mA **Po**: 150mW **Co**: 1410 nF **Lo**: 45 mH **Marking**: II(1)G [Ex ia] IIC II(1)D [Ex iaD] IIC Certificate: 02ATEX6104X SIL APPROVED

Explanatory diagram	I/O
	1 Input / 1 transistor Output
	2 Inputs / 2 transistor Outputs
	1 Input / 2 transistor Outputs