

Troubleshooting for connections and functional checks of REL011

For installation is mandatory refer to the instruction manual, this documentation gives only a quick check of the electrical connections and the main features.

REL011 CONNECTIONS AND FUNCTIONS

The tables below summarizes the electrical characteristics (input and output) and function of each input.

REL011				
PIN N	Function	Description	Type	Level
1	Relay output N.C.	No Safety contact NC	OUT	AC15 230V 4A / DC13 24V 2A
2	Relay output N.C..	No Safety contact NC	OUT	AC15 230V 4A / DC13 24V 2A
3	Not connected	-	-	-
4	Relay 0 output N.O.	Safety contact NO channel 0	OUT	AC15 230V 4A / DC13 24V 2A
5	Relay 0 output N.O.	Safety contact NO channel 0	OUT	AC15 230V 4A / DC13 24V 2A
6	Not connected	-	-	-
7	Relay 1 output N.O.	Safety contact NO channel 1	OUT	AC15 230V 4A / DC13 24V 2A
8	Relay 1 output N.O.	Safety contact NO channel 1	OUT	AC15 230V 4A / DC13 24V 2A
9	Not connected	-	-	-
10	Not connected	-	-	-
11	Not connected	-	-	-
12	OSSD1	PNP input channel 1	IN	0 - 24 Vdc 50mA
13	OSSD0	PNP input channel 0	IN	0 - 24 Vdc 50mA
14	EDM OUT	EDM output signal	OUT	0 - 24 Vdc 50mA
15	GND	0V power supply	IN	0V
16	EDM IN	EDM input signal	IN	24 Vdc 50mA

INDICATIONS

OSSD0	GREEN - OSSD0 output state
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If green light is ON, OSSD0 is active and vice-versa.

OSSD1	GREEN - OSSD1 output state
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If green light is ON, OSSD1 is active and vice-versa.

DIAGNOSTIC

OSSD0	OSSD1	LED REL011 status
OFF	OFF	The relay outputs are deactivated, Normal condition of the ESPE if has activated the protection or there is no power supply.
ON	ON	The relay outputs are active.
OFF	ON	OSSD0 is deactivated, damaged or wrong connection. Check the connections, if the problem is not solved contact the GREIN customer service.
ON	OFF	OSSD1 is deactivated, damaged or wrong connection. Check the connections, if the problem is not solved contact the GREIN customer service.

EXAMPLE OF CONNECTION - REL011

In this connection example it is used BOX DIN model REL011 in conjunction with an ESPE EFESTO4 B connection (see manual instruction of the light curtain for more information).

The EDM signal is used for diagnostics of the relay inside the REL011.

The EDM-IN input (pin 16) is brought to +24V.

The EDM-OUT output (pin 14) is connected to light curtain EDM input.

