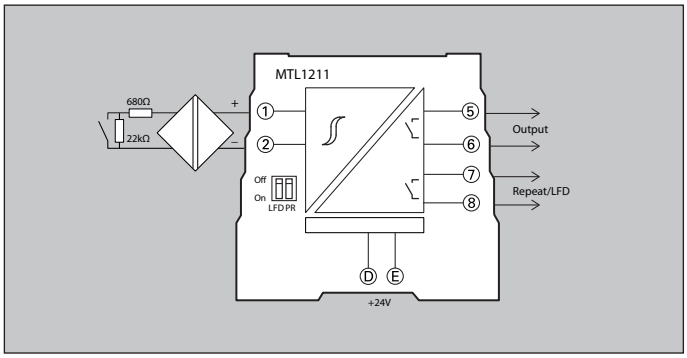
MTL1211 switch / proximity detector

with line fault detection

The **MTL1211** is a single channel switch or proximity detector isolator with the option to select line fault detection or a repeat output. Switches are used to select phase reversal or the repeat output.

Power for this module is supplied via the power bus embedded in the DIN rail in conjunction with the power bus accessories.



Terminals	Function
1	Input (+)
2	Input (-)
5	Output
6	Output

Terminals	Function
7	Repeat Output / LFD alarm
8	Repeat Output / LFD alarm
D	Power supply -ve
E	Power supply +ve

SPECIFICATION See also common specification	
Number of channels	One, with fully floating input and outputs
Location of equipment	Safe area
Input signal	Dry contact or inputs conforming to BS EN60947-5-6:2001, standards for proximity detectors (NAMUR)
Voltage to sensor	7-9V dc from 1kΩ ±10%
Input/output characteristics	Normal Phase- Output closed if input >2.1mA (<2kΩ in input circuit), Output open if input <1.2mA (>10kΩ in input circuit). Hysteresis 200µA (650Ω nominal)
Relay characteristics	Contact rating: 250V ac, 2A cosØ >0.7, 340V dc, 2A resistive load
Response time	20mS
Line fault detection (LFD) when used	User selectable via switches on the side of the unit. Line faults are indicated by an LED. The Output relay is de-energised if an input line fault is detected. Open-circuit alarm on if Iin <50uA, Open-circuit alarm off if Iin >250uA Short-circuit alarm on if Rin <100Ω, Short circuit alarm off if Rin >360Ω *Note: resistor must be fitted when using LFD with contact inputs 500Ω to 1kΩ in series with the switch and 20kΩ to 25kΩ in parallel with the switch.*
LED indicators	Green: power indication, Yellow: Channel status, on when relay energised Red: LFD status, on when line fault detected
Power supply voltage.	18V to 32V DC
Maximum current consumption	16mA at 24V dc
Power dissipation within unit	0.4W at 24V
Isolation	50V ac or dc between power and field circuits. (tested to 840V). 1500V between relay contacts and other circuits

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