

6.1.6 MTL4511 - Switch/Proximity detector interface

Single channel, with line-fault detection

The MTL4511 contains a changeover relay, which enables a safe-area load to be controlled by a switch or proximity detector located in a hazardous-area. When selected, the line-fault detect (LFD) facility detects open or short circuit conditions in the field wiring and also indicates this on the top of the module. **Line-Fault Detect** and **Phase Reversal** for the channel are selected by DIL switches on the side of the module and output is provided by the changeover relay contacts.

See page 15 for LFD and PR switch details. **Channel 1 only** switch settings apply.

For switch sensor inputs, with LFD selected, make sure resistors (22kΩ and 680Ω) are fitted.

Note: For reliable, long-term operation the load on the output switching relay should not be less than 50mW, e.g. 10mA at 5VDC.

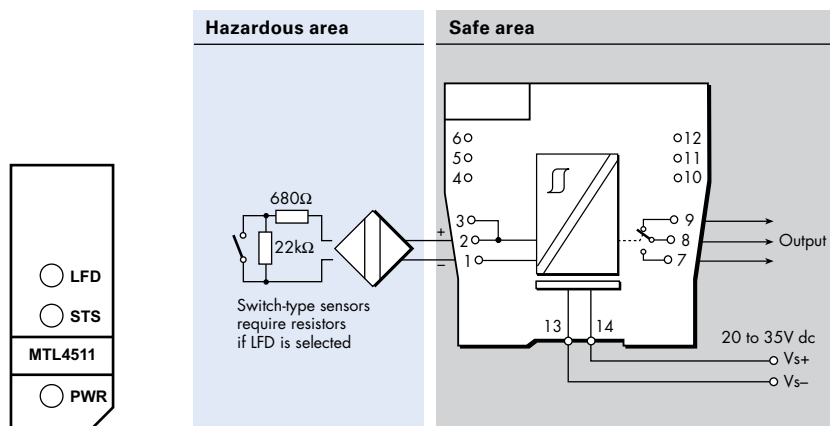


Figure 6.6:
Top label for
MTL4511

Terminal	Function
1	Input -ve
2	Input +ve
3	To earth leakage detector*
7	Output normally-open contact
8	Common
9	Output normally-closed contact
13	Supply -ve
14	Supply +ve