

6.1.10 MTL4516- Switch/Proximity detector interface

Two channel, with line-fault detection and phase reversal - normally-open contacts

The MTL4516 contains two normally-open contact relays, which enable two safe-area loads to be controlled by switches or proximity detectors 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 & 2** 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 relays should not be less than 50mW, e.g.10mA at 5VDC.

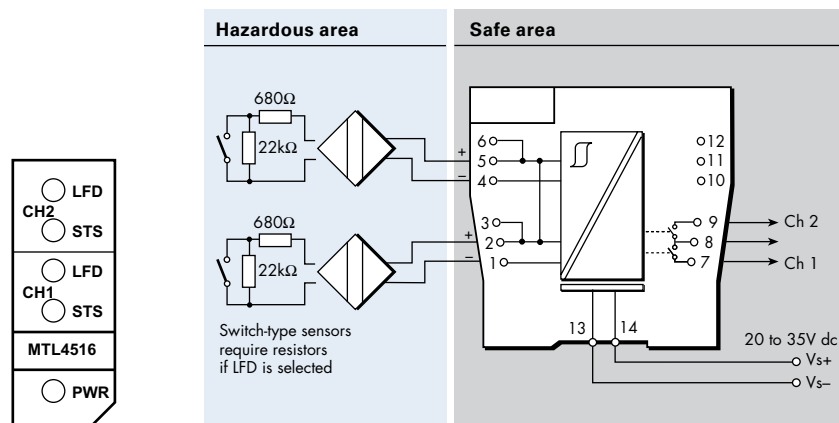


Figure 6.10:
Top label for
MTL4516

Terminal	Function
1	Input -ve (Ch 1)
2	Input +ve (Ch 1)
4	Input -ve (Ch 2)
5	Input +ve (Ch 2)
7	Output (Ch 1)
8	Common (Ch 1/Ch 2)
9	Output (Ch 2)
13	Supply -ve
14	Supply +ve