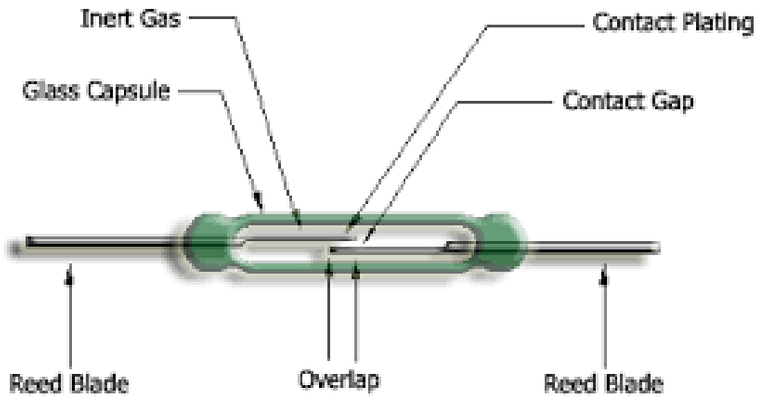
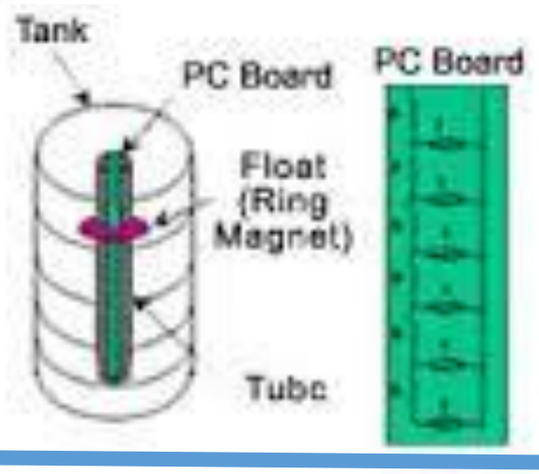
Comus Reed Switch

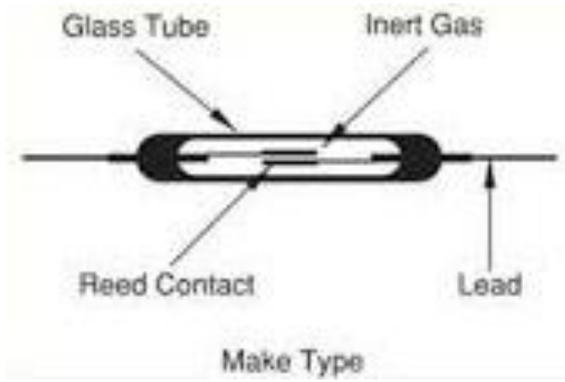
Advantages Reed Switches

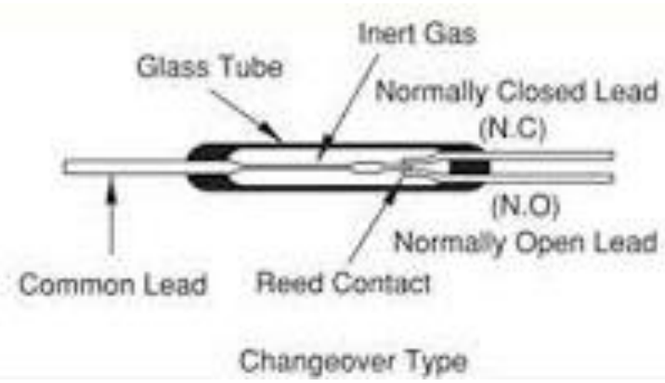
Compared with Mechanical Switches and Hall-Effect sensors

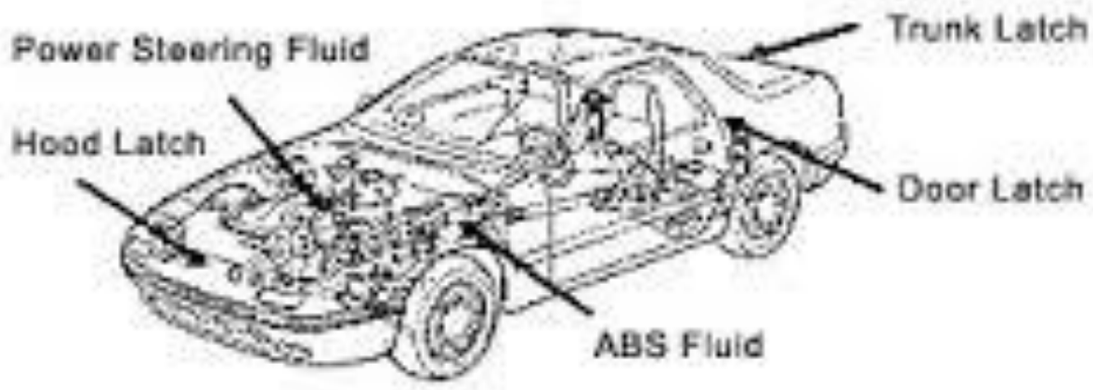
Surface Mount Reeds











Magnets

COMUS EUROPE

Advantages Reed Switches

Compared with mechanical switches

- Up to 1 billion operations
- Almost no mechanical wear
- Separated from environment (no sparks)
- Reliable, even after many years of no use (safety applications)
- Waterproof
- Acid resistant
- Cost effective
- Small
- Low and stable contact resistance
- 100 % galvanic isolation
- Small power needed to operate
- Low energy consumption, low losses
- Fast switching (open/close in milliseconds)
- Ambient operating temperatures (-55 to +150 Celsius)

COMUS EUROPE

Advantages Reed Switches

Compared with Hall-Effect sensors

Feature	Reed	Hall
• Power consumption	no	> 10mA DC
• Breakdown voltage (typ)	200+V	< 10V
• Contact resistance (typ)	< 120mΩ	> 200mΩ
• Switching load	70W	< 5mW
• Amplifier required	no	yes
• Galvanic isolation	yes	no
• Observe magnet polarity	no	yes
• Magnetic sensitivity	> 0,5mT	> 1,5mT
• Switching distance	up to 40mm	up to 20mm
• Hysteresis	adjustable	75% (typ)
• Hermetically sealed	yes	no
• Operating temperature /°C	-55 to +150	0 to +70