





New Jersey (New York)



Tongeren Belgium









Heerlen Holland





Switching Technologies Günther





Chennai India

Company History

- Founded in June of 1978 as a manufacturer of glass mercury tilt switches.
- 1988 formation of Assemtech Europe for Sensor manufacturing and distribution.
- 1991 acquisition of Reed Switch and Reed Sensor Manufacturing of Günther Germany and STG in Chennai, India.
- 1993 acquisition of mercury switch and relay manufacturing of CP Clare Belgium.
- 2009 acquisition of Reed Switch Manufacturing of Coto Technology Netherlands.
- 2014 acquisition of Computer Components Inc. a Relay manufacturer in the United States.

Company Overview (Present Day)

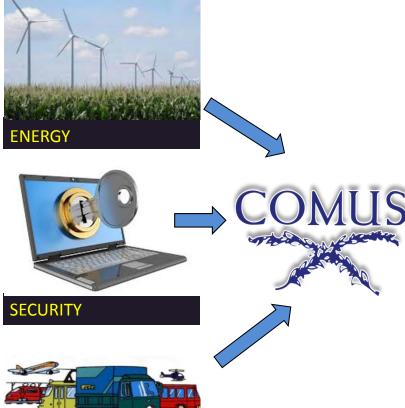
- The Comus Group of Companies today exists with 10 active product lines, in 6 locations spanning the globe and over 400 employees.
- Sales Worldwide exceed 30 million USD.
- Continual double digit increase in market share on new lines every year as well as legacy lines.



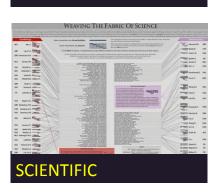
Main Market Segments



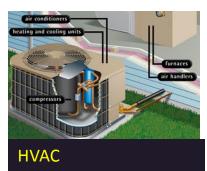


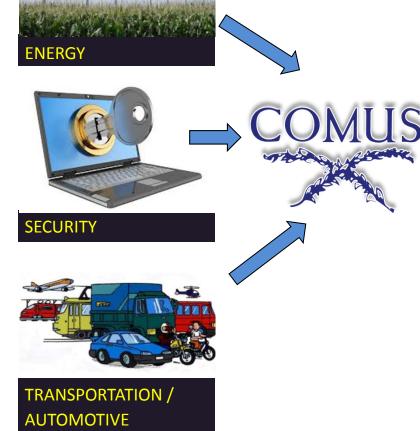






MEDICAL & HEALTHCARE







TILT & TIP-OVER SWITCHES

- Level control
- Home appliances
- Security systems
- Toys and games
- Water treatment equipment
- Portable lamps etc.



MOVEMENT / VIBRATION SWITCHES

- Security systems
- Man-down alarms
- Portable equipment
- Power off for conserving energy etc.



SHOCK / ACCELERATION SWITCHES

- Process control systems
- Safety installations
- Measure seismic activity
- Measure vibration & inclination etc.



SMART SENSORS

- Medical positioning
- · Engineering equipment
- Vehicle leveling
- Closed loop control systems
- Alarm control systems etc.



REED SWITCHES

- Electronic communications
- Domestic appliances
- Automotive industry
- Medical electronics
- Toys etc.



PROXIMITY SWITCHES

- Paper machines
- Mobile phones
- Roller coasters
- Conveyor systems
- Security systems etc.



REED RELAYS

- Radar communication
- Wireless communication
- Electronic modules
- Testing equipment etc.



FLOAT SWITCHES

- Sumps
- Pump control systems
- Irrigation systems
- Liquid leveling etc.





ALARM & SECURITY SWITCHES

- Door frames
- Shuttered loading doors
- Windows etc.



MAGNETS

- Loudspeakers
- Meters
- Motors
- Relays
- Toys



SOLID STATE RELAYS

- Motor and heating control
- Security systems
- Traffic control system
- Automatic doors
- Elevators, escalators etc.



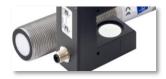
PRESSURE SWITCHES

- Weather implementation
- Aircraft
- Vehicle sensing etc.



OPTICAL LEVEL SWITCHES

- Food and beverage production
- Fluid control
- Tank level monitoring
- Pump protection etc.



ULTRASONIC SENSORS

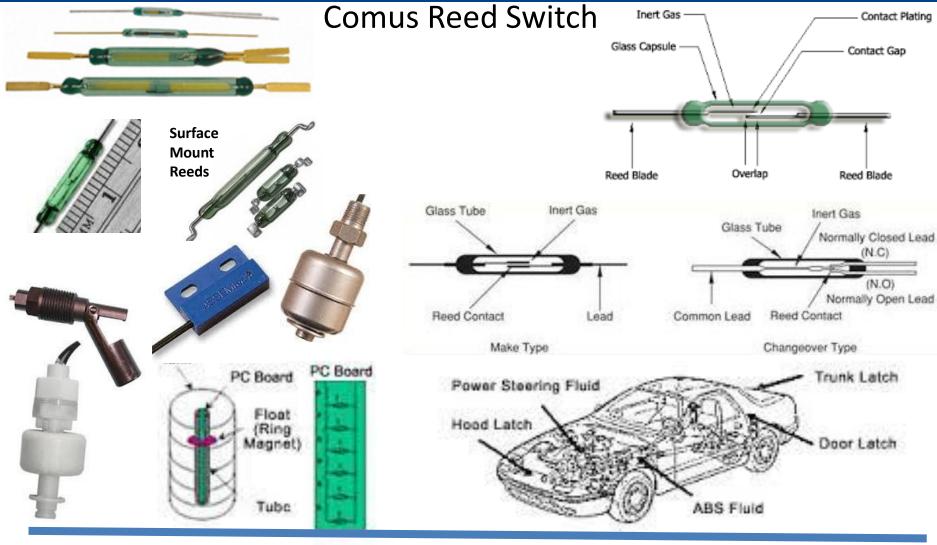
- Conveyor system
- Detection of transparent objects
- Security systems
- Activate motorized doors etc.



COMUS

The Comus Group of companies

























Magnetic Reed Proximity Switch Series

















Product Solutions

Reed Switch Applications
Tilt Switch Applications













Product Solutions





Reed Switch Applications
Tilt Switch Applications





















Reed Switch and Reed Relays





"Unique Selling Point"

Comus is the manufacturer of the reed switch used in the Reed Relay both in Comus Reed Relays and most Reed Relay Manufacturers











Why is a reed relay used in a switching circuit? "The Simple Explanation"

The reed switch is composed of two overlapping ferromagnetic blades (called reeds) hermetically sealed within a glass capsule that is filled with an inert gas.

A reed relay is a type of relay that uses an electromagnet to control one or more reed switches. The electromagnet acts directly on the magnetic blades without requiring an armature to move them.

When the current is switched off, the contacts open again, switching the circuit off.

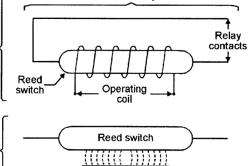
A useful property of relays is that the circuit powering the coil is completely separate from the circuit switched on by the relay.

For this reason relays are used where a safe low-voltage circuit controls a high-voltage

circuit.

The Reed Relay using a reed switch (a)

The Reed Switch and Magnet









Contact Forms

Form-A

Single pole-Single throw

Normally open (SPST N.O.)

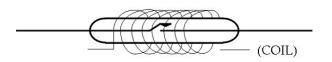
Form-B

Single pole-Single throw

Normally closed (SPST N.C.)

Form-C

Single pole-Double throw (SPDT)







Contact Materials

Ruthenium (Ru) Provides exceptional performance when switching dry loads.

Rhodium (Rh) Better suited for "high load" switching.

Iridium (Ir) Higher melting point for use in "high load" switching

Mercury (Hg) Allows "bounce free" contact closure.

Tungsten (W) High power for "hot switching" applications.





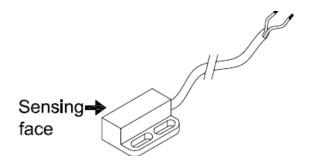
Steel Sensor SRA-SP Series

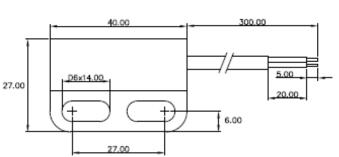
- Actuation from any side gives full positioning flexibility.
- No magnet needed for activation, gives a greatly reduced footprint.
- Hermetically sealed contacts for greater reliability.
- Adjustable trip point due to Mounting slots built within body moulding.
- Custom moulding Comus will be pleased to discuss custom mouldings to suit your application.

Suitable Applications:

Shutter Doors, Gate Applications, Interlock Sensing, Position Control, Limit Sensing

MPN	Part Number	Description	Each £
S1987	SRA SP-001	Front Sensing Face	3.72
S1987B	SRA SP-002	Bottom Sensing Face	3.72
S1987C	SRA SP-003	Top Sensing Face	3.72
S1980	SRA SP-004	Front Sensing Face Single Screw Fixing	4.32
S1980C	SRA SP-006	Top Sensing Face Single Screw Fixing	4.32









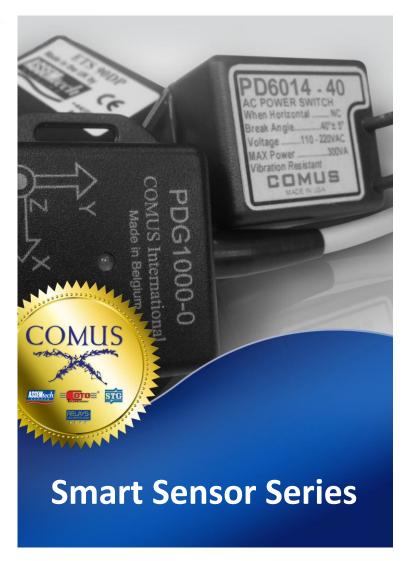


Smart Sensor Series

- AC Voltage Power Sensors
- DC Voltage Power Sensors
- Precision Acceleration Sensors
- Precision Angle Sensors
- Precision Shock Sensors
- Precision Motion Sensors
- Custom Products











Comus SMT Assembly

SMT ASSEMBLY

Comus International now offers PCB design and packaged solutions to our customers. We have a leading team of engineers and technicians for the highest quality of manufacturing and assembly. We are proud to offer quick turnarounds and prototyping rapid for customers who require an expedited flow from design inception to conceptual testing and finally production scaling.



Comus Worldwide Locations



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Comus Europe Ltd Rice Bridge Industrial Estate Unit 7, Thorpe le Soken Essex CO16 0HH United Kingdom



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