## The Comus Group of Companies

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On 13 February 2003, 2 directives of the European Parliament and of the Council appeared in the official Journal of the European Union :

Directive 2002/95/EC of January 27, 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (ROhS)

Directive 2002/96/EC of January 27, 2003 on waste electrical and electronic equipment (WEEE)

Directive 2002/95/EC stipulates that, from I July 2006, new electrical and electronic equipment put on the European market may not contain lead, mercury, cadmium, hexavelent chromium and PBB (polybrominated diphenyls) or PBDE (polybrominated diphenyl ethers).

This applies only to the following categories of electrical and electronic equipment, which are mainly consumer products

Large household appliances Small household appliances IT and Telecommunication equipment Consumer equipment Lighting equipment Electrical and electronic tools Automatic dispensers Electric light bulbs and luminaires in households

This directive does not apply to industrial or professional equipment

Medical equipment systems

Monitoring and control instruments

This directive also does not apply to spare parts for the repair, or to the reuse, of electrical and electronic equipment put on the European market before I July 2006.

This directive does not apply to the applications listed in the Annex of this directive.

This annex specifies applications of lead, mercury, cadmium and so on, which are exempted from the requirements, because their substitution is technically not feasible or their substitution creates a negative impact on people or the environment (decreased safety or other waste, environmental or technical problems).

The European member states have to bring in force the laws, regulations and administrative provisions necessary to comply with this directive before 13 August 2004.

Mercury wetted relays, switches and sensors still may be used in professional systems, as in monitoring and control instruments and medical equipment systems, and be sold on the European market

Also, mercury wetted relays, switches and sensors can always be used as spare parts for repair or reuse of every electric or electronic equipment.

All dimensions are nominal in millimetres unless otherwise stated. If further information is required individual datasheets are available on our websites, and on CD.

The Comus Group of Companies will, together with the sector organisations, define and communicate the necessary arguments to defend the use of mercury contained products for these applications where there is no technical alternative without effecting the safety and the environment in any other negative way.

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Mercury Switches

The products included in this catalogue are all designed to detect motion or movement. Forms of movement are: Tilt, Rotation, Vibration, Shock or Acceleration. Many of these can also be supplied for surface mount applications.

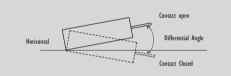
#### Tilt Switches

DESCRIPTION

These operate when tilted from the horizontal position. The switch movement required to cause contact change is called the differential angle. It is very important when designing a tilt switch to allow for the differential angle and understand that when in the horizontal position the switch contact may be open or closed.

#### Tilt Switch Modules

A Tilt Switch located inside a sealed (usually plastic) enclosure. Flying leads are provided for

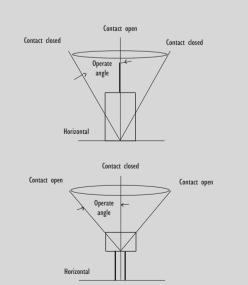


#### **Tip-Over Switches**

These operate when the switch is tilted from the vertical position. The angle through which the switch has to move before operating is called the operating angle. Many of these switches are omni-directional

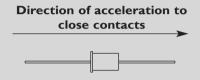
#### **Tip-Over Switch Modules**

A Tip-Over Switch located inside a sealed (usually plastic) enclosure. Flying leads are provided for easy connection.



### **Acceleration and Shock Sensors**

These switches have a normally open contact which closes when the switch reaches the



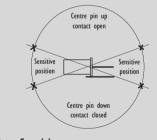
#### **Movement and Vibration Switches**

When correctly positioned the switch contacts will react by giving a fleeting change of state when subjected to movement or vibration.

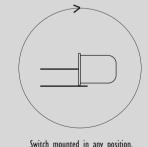
#### **Movement and Vibration Switch Modules**

A Movement or Vibration switch located in a sealed (usually plastic) housing.

### **Position Sensitive**



### Non Position Sensitive



Switch mounted in any position.

We also have a large network of worldwide agents. These can be seen on any of our websites, or on our company profile brochure.

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## As part of the group's policy of continued product improvement, specifications may change without notice. Our sales office will be pleased to help you with the latest information on our products.

