

Drawings not to scale  
All dimensions in mm

Patent App. 98 09677.9

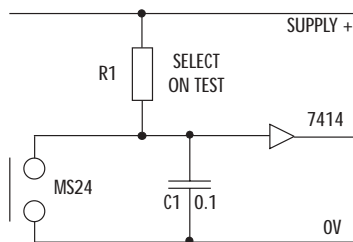
This non-mercury sensor has been specifically designed for the detection of movement and vibration. The sensor is non position sensitive offering a similar level of sensitivity whatever its position and has been designed for use with analogue or digital circuitry. The sensor reacts when disturbed by giving a fleeting change of state (ie n/o to n/c or vice versa). The time taken to settle depends on the amount of energy absorbed by the device, the settled state will be random unless mounting attitude is chosen for a n/c output.

The low contact resistance of this device makes it ideal for incorporating into new or existing designs.

## SPECIFICATION

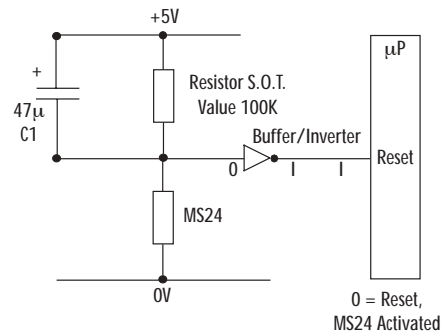
SWITCHING VOLTAGE	Max. Vac	24
SWITCHING CURRENT	Max. A	0.25
SWITCHING CAPACITY	Max. VA	5
OPERATING ANGLE	Max. °Deg	N/A
CONTACT RESISTANCE	Max. Ω	5
OPERATING TEMPERATURE	Deg. °C	-37° +100°
STORAGE TEMPERATURE	Deg. °C	-40° +125°
CASE MATERIAL		Steel - Gold plated
CABLE/TERMINATION		Pin
FEATURES		Non-mercury contacts Omni-Directional

### DAMPING CIRCUIT



The output of the MS24 may be damped when less sensitivity is required by using a Schmitt trigger device as shown. Lowering the value of R1 (100 ohm min) will reduce the sensitivity of the switch.

### LOW CURRENT RESET CIRCUIT



Inverter input held at 0V (logic 0) with no disturbance, a charge is permanently held in C1. With movement the MS24 goes momentarily open circuit allowing the charged capacitor to be seen at the inverter input which would change state giving a pulse to reset.

## MOVEMENT / VIBRATION SENSOR

### Non Mercury Contacts

PART NUMBER  
**MS 24**

Rev. No.	Revision Note	Date	Signature
F	Web Site 2003	1-4-03	RG



BS5750/ISO 9000  
Reg. No. FM 21080