FORM AE043 ISS1

PRODUCT DATA SHEET

ASSEMtech Europe Ltd



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 Max. Vac 24 SWITCHING VOLTAGE 0.25 Max, A SWITCHING CURRENT Max. VA 5 SWITCHING CAPACITY Max. °Deg N/A **OPERATING ANGLE** Max. Ω 5 CONTACT RESISTANCE -37° +100° Deg. °C **OPERATING TEMPERATURE** -40° +125° STORAGE TEMPERATURE Deg. °C Steel - Gold plated CASE MATERIAL Pin CABLE/TERMINATION Non-mercury contacts **FEATURES** Omni-Directional DAMPING CIRCUIT LOW CURRENT RESET CIRCUIT SUPPLY + +5VSELECT μP R1 ON TEST Resistor S.O.T. Inverter input held at 0V



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



(logic 0) with no disturbance, a charge is permanently held in CI. 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.

PART NUMBER

MS 24

MOVEMENT / VIBRATION SENSOR Non Mercury Contacts

Revision Note

Web Site 2003

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BS5750/ISO 9000

Reg. No. FM 21080

As part of the company policy of continued product improvement, specifications may change without notice. Our sales office will be pleased to help you with the latest information on this product range and details of our full design and manufacturing service. All products are supplied to our standard conditions of sale otherwise agreed in writing.



Date

1-4-03

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