

MTVS0004 Vibration Switch

- Complete condition monitoring and protection module
- Gives early warning of fault conditions
- Helps avoid plant shut down
- Two user set alarm and trip levels
- Simply bolts to machine
- Users need no special vibration experience or training
- Compact and low cost



The MTVS0004 Vibration Switch offers a low cost, simple to install and operate solution to protect all sorts of rotating machinery; motors, pumps, fans, gearboxes etc. It's durable case with high IP rating is suitable for long life in harsh industrial environments. Measurements are made in velocity and compatible with ISO10816 Machine Vibration Severity Test.

Just bolt the unit to a flat surface on your machine, set the appropriate alarm and trip levels, connect the relays to switch alarms or to power down the machine then connect to the power supply for continuous protection. For restricted access situations or where the vibration must be monitored on bearing housings external vibration sensors may be used with mounting diameters down to 15mm diameter. Choose either latching alarm relays requiring operator reset following an over vibration incident or non-latching relays to automatically resume operation as soon as the fault has cleared.

SPECIFICATIONS

<i>Velocity Range</i>	0-50mm/sec
<i>Frequency Range</i>	5Hz to 1KHz
<i>Alarm Levels</i>	Customer selectable, high alarm is multiple of low alarm AL 1: 1.5mm/sec to 50mm/sec AL2: 2.25mm/sec to 250mm/sec
<i>Alarm Indicators</i>	On side of unit Green: Vibration OK Amber: Vibration above AL1 Red: Vibration above AL2
<i>Alarm Relays</i>	Normally open or normally closed Max ratings: 8A @ 240VAC, 8@ 30VDC
<i>Alarm Delay</i>	30 seconds after start up
<i>Monitor Output</i>	4-20mA, sink, scaled to 5 x AL2
<i>Power requirement</i>	Internally selectable, 24VDC, 110VAC or 230VAC
<i>Case</i>	Aluminium, powder coated, IP66 Dims: 125mm W x 80mm D x 65mm H Weight: 770gms Two top mounted plastic glands for electrical connections

<i>Internal Sensor</i>	100mV/g accelerometer
<i>Optional External Sensor</i>	Any 100mV/g constant current accelerometer.

Part Numbers	MTVS0004-10 Vibration switch with internal sensor and non-latching alarms MTVS0004-11 Vibration switch with internal sensor and latching alarms MTVS0004-12 Vibration switch for use with external sensor and non-latching alarms MTVS0004-13 Vibration switch for use with external sensor and latching alarms
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Option	MTN/1100C Constant current accelerometer, 100mV/g, 1/4" female mounting, 5 metre cable MTN/CA067 BNC connector
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