



**FIRE**  
FIGHTING  
ENTERPRISES

# Type 3171 MR & 3171/S

## Weatherproof Vibration Switch

### Features

- Ease of installation on new or existing plant and machinery
- Robust for Industrial Environments
- S.P.C.O. or D.P. microswitch output
- Sensitive in horizontal and vertical planes
- Manual or Electric Reset
- Electrical connections via 20mm entry
- No maintenance after installation
- Models for operation in hazardous areas, see appropriate data sheet

### General Descriptions

The 3171 is a low cost vibration sensitive switch for the protection of rotating plant and reciprocating machinery. It is adjustable to operate above the normal running levels of vibration, activating alarm or machine shut-down circuits.

Once operated the internal microswitch remains latched until reset.

The 3171 vibration switch, with its low frequency response, makes it ideal for detection of mass unbalance on most machines. It is inherently insensitive to high frequency components and

those caused by external knocks, etc. Being responsive to vibrations in any directions (dominantly in a horizontal plane) installation problems are minimised.

The 3171 vibration switch is reset by depressing a reset button on the base of the 3171 MR or by energising momentarily an electrical coil in the 3171/S model.

Adjustment of the operate point is controlled by rotating a set screw on top of the switch.

# data



# Type 3171 MR & 3171/S

Weatherproof Vibration Switch AH21A

## Applications

Rotating and reciprocating machines (below 3000rpm), eg., Fans, Centrifuges, Compressors, Pumps Mills, etc.

## Technical Specification Low Voltage Directive 73/23/EEC, as amended by Directive 93/68/EEC

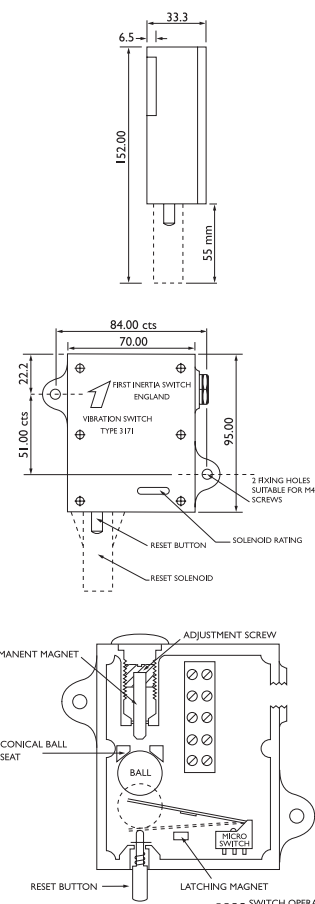
### Manual Reset

<b>Enclosure:</b>	Sealed Ingress Protection to IP67 to BS EN60947-1
<b>Material:</b>	Die-cast zinc alloy. Mazak III
<b>Finish:</b>	Chromate Passivation with Polyester Paint (Grey)
<b>Set Level Range:</b>	1 to 9g Peak (Horizontal vibrations)
<b>Contact Rating:</b>	**5 amp 250V ac (non-inductive) S.P.C.O. 3 amp 30V dc (non-inductive) up to 1 million operations **4 amp 250V ac per contact for D. Pole Versions
<b>Special (Gold):</b>	0.5A 30VDC max for I.S. Currents
<b>Contact Arrangements:</b>	S.P.C.O. or optional D.Pole
<b>Temperature Range:</b>	Max + 85 deg C, min. -35 deg C.
<b>Connections:</b>	Terminal block via 20mm dia. cable entry (2.5mm sq. cables).
<b>Weight:</b>	700 grms approx.
<b>Mounting:</b>	Fix to vertical face with Reset Button at bottom.
<b>Cable:</b>	SWA, or MICC, or Screened, or Conduit recommended.

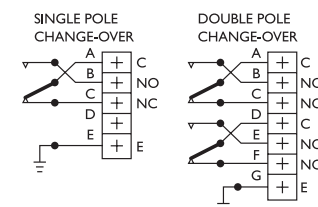
### Solenoid Reset Type 3171/S

<b>Generally as per 3171 manual reset excepting:</b>	
<b>Contact Arrangements:</b>	D.P.S.T. (NO or NC as required).
<b>Weight:</b>	825 grms approx.
<b>Note:</b>	ac solenoids normally continuously rated. dc Solenoids Intermittent. 25% rated i.e. (1 min ON & 3 mins OFF).
<b>Electrical Reset:</b>	Solenoid rating 48 watts maximum intermittent rating. Solenoid voltages 110, 240 ac or 24 dc as standard.

## Dimensions



### 3171 MANUAL RESET



### 3171/S SOLENOID RESET

