




Model Number 686B01	VIBRATION SWITCH			Revision NR ECN #:															
Performance	ENGLISH	SI		Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) EX - Hazardous Area Approval- contact factory for specific approvals															
Frequency Range (±3 dB)	180 to 60 kcpm	3 to 1000 Hz		Hazardous Area Approval															
Hysteresis (% < Alarm Threshold)	3; 6; or 10 %	3; 6; or 10 %	[1]	CI I, Div 2, Groups A, B, C, D; Ex nL															
Residual Vibration Level (Reference)	Dependent or Independent	Dependent or Independent	[1]	CI I, Div 2, Groups A, B, C, D; Ex nL															
Residual Vibration Level (% Alarm Threshold)	1 to 40 %	1 to 40 %	[1]	IICT3, AEx nA															
MAVT (Sets Alarm Threshold to 2X actual vibration)	Enabled or Disabled	Enabled or Disabled	[1]	IICT3															
Transverse Sensitivity	<7 %	<7 %		10 to 30 VDC															
Power On Delay (±1 sec)	3 or 20 sec	3 or 20 sec	[1]	100 mA															
Startup Delay (±1 sec or 1 min) (Time)	1 to 60 sec or 1 to 30 min	1 to 60 sec or 1 to 30 min	[1]	10 to 30 VDC, 100 mA															
Startup Delay (Active)	Enabled or Disabled	Enabled or Disabled	[1]	10 to 30 VDC, 100 mA															
Startup Delay (x Alarm Threshold)	x2; x4; x8; Blocked	x2; x4; x8; Blocked	[1]																
Operational Delay (±1 sec)	1 to 60 sec	1 to 60 sec	[1]																
Relay (Type)	SPST, Form A or B MOSFET	SPST, Form A or B MOSFET		M - Metric Mount															
Relay (Latching)	Latching / Non-Latching	Latching / Non-Latching	[1]	Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1															
Relay (Contacts)	Normally Open / Closed	Normally Open / Closed	[1]	Notes															
				[1] USB Programmable - See configuration sheet supplied with switch for exact setting.															
				[2] See PCB Declaration of Conformance PS023 or PS060 for details.															
Environmental				Supplied Accessories															
Temperature Range (Operating)	-40 to 185 °F	-40 to 85 °C		081A41 Mounting stud 1/4-28 socket head set screw brass tip stainless steel 5/8" long (1)															
Temperature Range (Storage)	-40 to 257 °F	-40 to 125 °C																	
Overload Limit (Shock)	5000 g pk	49050 m/s² pk																	
Enclosure Rating	IP68	IP68																	
Electrical																			
Power Required	24 to 240 V DC/AC	24 to 240 V DC/AC																	
	50/60 Hz	50/60 Hz																	
Current Rating (Relay Closed)	500 mA	500 mA																	
Leak Current (Relay Open)	≤1 mA	≤1 mA																	
Electrical Isolation (Case)	>10 ⁸ Ohm	>10 ⁸ Ohm																	
Physical																			
Size (Hex x Height)	1.25 in x 2.6 in	1.25 in x 66 mm																	
Weight	5.2 oz	148 gm																	
Mounting Torque	3 to 5 ft-lb	4 to 7 Nm																	
Mounting Thread	1/4-28 Female	1/4-28 Female																	
Sensing Element (Internal)	Piezoelectric	Piezoelectric																	
	Accelerometer	Accelerometer																	
Housing Material	Stainless Steel	Stainless Steel																	
Sealing	Welded Hermetic	Welded Hermetic																	
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015																	
Electrical Connection Position	Top	Top																	
<div> <div>   C US </div> <div>  A PCB PIEZOTRONICS DIV. </div> <div> 3425 Walden Avenue Depew, NY 14043 UNITED STATES Phone: 716-684-0003 Fax: 716-684-3823 E-mail: imi@pcb.com Web site: www.imi-sensors.com </div> </div>																			
<table border="1"> <tr> <td>Entered: do</td><td>Engineer: BAM</td><td></td><td></td><td>Spec Number:</td></tr> <tr> <td>Date:</td><td>Date:</td><td></td><td></td><td>43194</td></tr> <tr> <td>05/18/2009</td><td>05/18/2009</td><td></td><td></td><td></td></tr> </table>					Entered: do	Engineer: BAM			Spec Number:	Date:	Date:			43194	05/18/2009	05/18/2009			
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All specifications are at room temperature unless otherwise specified.

In the interest of constant product improvement, we reserve the right to change specifications without notice.