


Model Number 685B0001C14	<b>ELECTRONIC VIBRATION SWITCH</b>		Revision A ECN #: 27665										
<b>Performance</b> Measurement Range Frequency Range (±3 dB) Power On Delay Relay (Alert)  Relay (Alarm)  Relay (Contacts)  Relay (Contacts)  Alarm Setpoint  Alert Setpoint  Delay (Alert) Delay (Alarm) Acceleration Output (±10 %)	<b>ENGLISH</b> 0 to 1.5 in/sec pk 120 to 60000 cpm 20 sec 10A/245 VAC or 5A/30 VDC 10A/245 VAC or 5A/30 VDC Latching / Non- Latching Normally Open / Closed 10 to 100% of Vibration Range 10 to 100% of Alarm Setpoint 0 to 45 sec 0 to 45 sec 100 mV/g	<b>SI</b> 0 to 38.1 mm/s pk 2 to 1000 Hz 20 sec 10A/245 VAC or 5A/30 VDC 10A/245 VAC or 5A/30 VDC Latching / Non- Latching Normally Open / Closed 10 to 100% of Vibration Range 10 to 100% of Alarm Setpoint 0 to 45 sec 0 to 45 sec 10.2 mV/(m/s <sup>2</sup> )	<b>Optional Versions</b> (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)  <b>Notes</b> [1] Reset can also be engaged via external connection to common [2] Current will fluctuate at frequencies below 5 Hz. [3] Active only during calibration mode [4] To obtain 60000 cpm (1000 Hz) frequency response, grease must be applied to mechanical couplings. Otherwise frequency response limited to 30000 cpm (500 Hz) [5] Factory Set [6] See PCB Declaration of Conformance PS051 for details.										
<b>Control Interface</b> Power LED Alarm LED Alert LED Time Delay Adjustment  Reset Function  Self Test Function	Green Red Yellow Single Turn Potentiometer Momentary Pushbutton Switch Momentary Pushbutton Switch	Green Red Yellow Single Turn Potentiometer Momentary Pushbutton Switch Momentary Pushbutton Switch	[4] [5]         [1]										
<b>Environmental</b> Temperature Range (Operating) Temperature Range (Storage) Enclosure Rating Hazardous Area Approval  Hazardous Area Approval  Hazardous Area Approval	-13 to 158 °F -40 to 257 °F Nema 4X Class I Div 1 Groups B, C, D Class II Div 1 Groups E, F, G Class III	-25 to 70 °C -40 to 125 °C IP66 Class I Div 1 Groups B, C, D Class II Div 1 Groups E, F, G Class III											
<b>Electrical</b> Power Required  Current Consumption Output Current External Calibration Input	85-245 VAC 50/60 Hz <150 mA 4 to 20 mA 4 to 20 mA	85-245 VAC 50/60 Hz  <150 mA 4 to 20 mA 4 to 20 mA	[2] [3]										
<b>Physical</b> Size (Width x Height x Depth)  Weight Mounting Torque (Base) Sensing Element (Internal)  Housing Material Electrical Connector Enclosure  Screw Terminal Wire Size	4.48 in x 4.58 in x 4.48 in 4 lb 2 to 5 ft-lb 100 mV/g ICP" Accelerometer Aluminum Alloy Screw Terminals Internal and Remote Reset 24-14 AWG	114 mm x 116 mm x 114 mm 1.8 kg 3 to 7 N-m 100 mV/g ICP" Accelerometer Aluminum Alloy Screw Terminals Internal and Remote Reset 0.2 - 2.5 mm <sup>2</sup>	<table border="1" data-bbox="1129 1174 2016 1250"> <tr> <td>Entered: LLH</td> <td>Engineer: NJF</td> <td>Sales: JJ</td> <td>Approved: NJF</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 11/12/2007</td> <td>Date: 11/08/2007</td> <td>Date: 11/08/2007</td> <td>Date: 11/08/2007</td> <td><b>37423</b></td> </tr> </table>  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	Entered: LLH	Engineer: NJF	Sales: JJ	Approved: NJF	Spec Number:	Date: 11/12/2007	Date: 11/08/2007	Date: 11/08/2007	Date: 11/08/2007	<b>37423</b>
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Cable Input

Dual 1/2 in. NPT  
Conduit Hubs

Dual 1/2 in. NPT  
Conduit Hubs

Mounting Hole Size

0.31 in

7.8 mm



*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.

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