

Model Number 686B71		SMART VIBRATION SWITCH		Revision: A ECN #: 39883											
Performance		ENGLISH	SI	OPTIONAL VERSIONS											
Alarm Threshold(± 10 %)		0.25 to 5 in/sec pk	4.5 to 90 mm/s rms	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.											
Frequency Range(± 3 dB)		420 to 60 kcpm	7 to 1000 Hz												
Hysteresis(% < Alarm Threshold)		3; 6; or 10 %	3; 6; or 10 %	EP - Explosion-proof certified conduit housing with 1" pipe thread											
Residual Vibration Level(Reference)		Dependent or Independent	Dependent or Independent	EX - Hazardous Area Approval- contact factory for specific approvals											
Residual Vibration Level(% Alarm Threshold)		1 to 40 %	1 to 40 %	Hazardous Area Approval CI I, Div 2, Groups A, B, C, D; ExnA IIC T3, AExnA IIC T3											
MAVT(Sets Alarm Threshold to 2X actual vibration)		Enabled or Disabled	Enabled or Disabled												
Transverse Sensitivity		<3 %	<3 %												
Power On Delay(± 1 sec)		3 or 20 sec	3 or 20 sec												
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												
Startup Delay(x Alarm Threshold)		x2; x4; x8; Blocked	x2; x4; x8; Blocked												
Startup Delay(Active)		Enabled or Disabled	Enabled or Disabled												
Operational Delay(± 1 sec)		1 to 60 sec	1 to 60 sec												
Relay(Type)		SPST, Form A or B	SPST, Form A or B												
		MOSFET	MOSFET												
Relay(Capacity)		24 to 240 V AC/DC, 500 mA	24 to 240 V AC/DC, 500 mA												
Relay(Latching)		Latching / Non-Latching	Latching / Non-Latching												
Relay(Contacts)		Normally Open / Closed	Normally Open / Closed												
Environmental				NOTES:											
Temperature Range(Operating)		-40 to 185 °F	-40 to 85 °C	[1] USB Programmable - See configuration sheet supplied with switch for exact setting.											
Temperature Range(Storage)		-40 to 257 °F	-40 to 125 °C	[2] See PCB Declaration of Conformance PS051 for details.											
Overload Limit(Shock)		5000 g pk	49,050 m/s² pk												
Electrical															
Power Required		24 to 240 V DC/AC 50/60 Hz	24 to 240 V DC/AC 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)		1.38 in x 3.68 in	1.38 in x 94 mm												
Weight		7.0 oz	200 gm												
Mounting Thread		1/4 NPT	No Metric Equivalent												
Sensing Element(Internal)		Piezoelectric Accelerometer	Piezoelectric Accelerometer												
Housing Material		Stainless Steel	Stainless Steel												
Electrical Connector		Terminal Block	Terminal Block												
Electrical Connection Position		Top	Top												
Screw Terminal Wire Size		12-24 AWG	3.0 - .2mm²												
Conduit Housing Thread		1" NPT Female	No Metric Equivalent												
 [2] 		<table><tr><td>Entered: AP</td><td>Engineer: do</td><td>Sales: EGY</td><td>Approved: BAM</td><td>Spec Number:</td></tr><tr><td>Date: 9/4/2012</td><td>Date: 9/4/2012</td><td>Date: 9/4/2012</td><td>Date: 9/4/2012</td><td>42352</td></tr></table>				Entered: AP	Engineer: do	Sales: EGY	Approved: BAM	Spec Number:	Date: 9/4/2012	Date: 9/4/2012	Date: 9/4/2012	Date: 9/4/2012	42352
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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.															