

Model Number 686B71		SMART VIBRATION SWITCH		Revision: B ECN #: 56646	
Performance		ENGLISH		SI	
Alarm Threshold(± 10 %)	0.25 to 5 in/sec pk	4.5 to 90 mm/s rms		[1]	
Frequency Range(± 3 dB)	420 to 60 kcpm	7 to 1,000 Hz		[1]	
Hysteresis(% < Alarm Threshold)	3; 6; or 10 %	3; 6; or 10 %		[1]	
Residual Vibration Level(Reference)	Dependent or Independent	Dependent or Independent		[1]	
Residual Vibration Level(% Alarm Threshold)	1 to 40 %	1 to 40 %		[1]	
MAVT(Sets Alarm Threshold to 2X actual vibration)	Enabled or Disabled	Enabled or Disabled		[1]	
Transverse Sensitivity	< 3 %	< 3 %		[1]	
Power On Delay(± 1 sec)	3 or 20 sec	3 or 20 sec		[1]	
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]	
Startup Delay(x Alarm Threshold)	x2; x4; x8; Blocked	x2; x4; x8; Blocked		[1]	
Startup Delay(Active)	Enabled or Disabled	Enabled or Disabled		[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		[1]	
Relay(Capacity)	24 to 240 V AC/DC, 500 mA	24 to 240 V AC/DC, 500 mA		[1]	
Relay(Latching)	Latching / Non-Latching	Latching / Non-Latching		[1]	
Relay(Contacts)	Normally Open / Closed	Normally Open / Closed		[1]	
Environmental					
Temperature Range(Operating)	-40 to 185 °F	-40 to 85 °C			
Temperature Range(Storage)	-40 to 257 °F	-40 to 125 °C			
Overload Limit(Shock)	5,000 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			
OPTIONAL VERSIONS					
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.					
EP - Explosion-proof certified conduit housing with 1" pipe thread					
EX - Hazardous Area Approval- contact factory for specific approvals					
NOTES:					
[1]USB Programmable - See configuration sheet supplied with switch for exact setting.					
[2] See PCB Declaration of Conformance PS096 or PS143 for details					
Entered: ND					
Engineer: gs					
Sales: JL					
Approved: BAM					
Spec Number:					
Date: 06/08/2026					
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CE

UK

CA

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Ex

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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