

Model Number
686B71

SMART VIBRATION SWITCH

Revision: A
ECN #: 39883

	ENGLISH	SI	
Performance			
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 1000 Hz	
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 %	
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	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	[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)	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	

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.

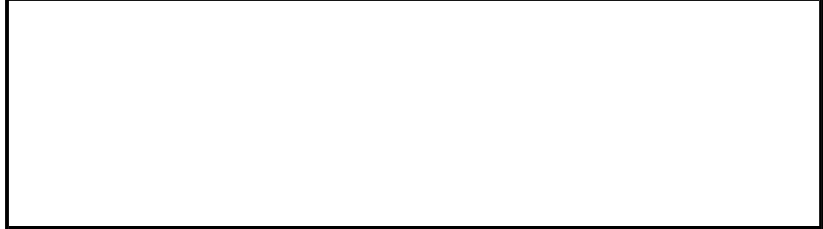
EP - Explosion-proof certified conduit housing with 1" pipe thread

EX - Hazardous Area Approval- contact factory for specific approvals

Hazardous Area Approval CI I, Div 2, Groups A, B, C, D; ExnA IIC T3, AExnA IIC T3 CI I, Div 2, Groups A, B, C, D; ExnA IIC T3, AExnA IIC T3

NOTES:

[1] USB Programmable - See configuration sheet supplied with switch for exact setting.
[2] See PCB Declaration of Conformance PS051 for details.



[2]

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.

Entered: AP	Engineer: do	Sales: EGY	Approved: BAM	Spec Number:
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