

Model Number 686B61	VIBRATION SWITCH	Revision: A ECN #: 39883
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	<u>ENGLISH</u>	<u>SI</u>	
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 MOSFET	SPST, Form A or B 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/s ² pk	
Humidity Range(Condensing)	0 to 100 %	0 to 100 %	
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)	1.25 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 Accelerometer	Piezoelectric Accelerometer	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Molded	Molded	
Electrical Connector	Molded Integral Armored	Molded Integral Armored	
Cable Length	Cable	Cable	
Cable Termination	10 ft	3 m	
Electrical Connection Position	Blunt cut	Blunt cut	
Cable Type	Top	Top	
	Polyurethane	Polyurethane	

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.

EX - Hazardous Area Approval- contact factory for specific approvals

Current Rating(Relay Closed)	100 mA	100 mA
Hazardous Area Approval	Cl I, Div 2, Groups A, B, C, D; Ex nL IICT3, AEx nA IICT3	Cl I, Div 2, Groups A, B, C, D; Ex nL IICT3, AEx nA IICT3

Power Required 10 to 30 VDC 10 to 30 VDC

Relay(Capacity) 10 to 30 VDC, 100 mA 10 to 30 VDC, 100 mA

M - Metric Mount
Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)

NOTES:

[1] USB Programmable - See configuration sheet supplied with switch for exact setting.

[2] See PCB Declaration of Conformance PS096 for details.

SUPPLIED ACCESSORIES:

Model 081A41 Mounting stud 1/4-28 socket head set screw brass tip stainless steel 5/8" long (1)

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	44915



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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