Model Number

685BXXXXXXX

ELECTRONIC VIBRATION SWITCH SPECIFICATIONS

Revision: H

ECN #: 31446

DYNAMIC PERFORMANCE	ENGLISH	SI			OP	TIONAL VERSI	ONS			
Frequency Response (±3dB)	120 - 60000 cpm	2 - 1000 Hz	1	Optional versions have identical specifications and accessories as listed for the standard			or the standard			
Alarm Setpoint	10 to 100% of Vibration Range	10 to 100% of Vibration Range		mod	del except where not	ed below. More tha	n one option may be	used.		
Alert Setpoint	10 to 100% of Alarm Setpoint	10 to 100% of Alarm Setpoint		Accelerome	eter Configurat	ion: 685B X 0000	000			
Alert/Alarm Time Delay	0 - 45 sec	0 - 45 sec		□ 0 Intern	al					
Turn on Time Delay	20 sec	20 sec	2	☐ 1 Extern	nal ICP Accelere	meter (100 mV	/g)			
ELECTRICAL				□ 2 Extern	nal ICP Accelere	meter (100 mV	/g) Low Freq. (1	i-1000 Hz)		
Power Supply Current	<150 mA	<150 mA		Vibration Range: 685B0X00000						
Sensor Type	Piezoelectric Sensing Element	Piezoelectric Sensing Element		□ 0 0 to 1.5 in/s pk (0 to 38.1 mm/s pk)						
Output (Current)	4 to 20 mA	4 to 20 mA	5							
Raw Vibration Output (±10%)	100 mV/g	10.2 mV/(m/s²)		2 0 to 15 mils pk to pk (0 to 381 μm pk to pk)						
Calibration Input	4 to 20 mA	4 to 20 mA	3	□ 3 0 to 50 mils pk to pk (0 to 1.27 mm pk to pk)						
ENVIRONMENTAL				□ 4 0 to 3	.0 in/s pk (0 to 7	6.2 mm/s pk)	. ,			
Operating Temperature Range	-22 to +158°F	-30 to +70°C			r: 685B00 X 000					
Storage Temperature Range	-40 to +257°F	-40 to +125°C		□ 0 85-245 Vac 50/60 Hz						
Relative Humidity	NEMA 4X	IP66		□ 1 24 Vdc +/-10%						
MECHANICAL				Alert and Alarm Switch Mechanism: 685B000X000						
Case Dimension W x H x D:	3.5 in x 2.8 in x 3.5 in	90 mm x 70 mm x 90 mm		□ 0 Triac	5A, 245 Vac, 10	00 Vac Isolation	n			
Weight	1.85 lb	839 gm		☐ 1 Relay 10A, 245 Vac/30 Vdc, Form C (SPDT), 1000 Vac Isolation						
Material	Aluminum Alloy	Aluminum Alloy		Enclosure: 685B0000XX0						
Input/Output Electrical Connectors	Screw Terminals	Screw Terminals		□ A1 Internal and Remote Reset						
Screw Terminal Wire Size	24 – 14 AWG	0.2 – 2.5 mm ²		□ A2 External Pushbutton Reset						
Cover Screw Torque (Maximum)	4.1 lb-ft	5.7 N-m		□ A3 Buffered Acceleration Signal though External BNC (100 mV/g)						
Mounting Hole Size (max. diameter)	0.21 in	5.4 mm		□ A4 Same as A1 plus A2 and A3						
Mounting Screw Torque	2-5 lb-ft	3-7 N-m		Interface: 685B000000X						
INDICATOR/CONTROLS				□ 0 Dual 0	Cord Grips: Wire	Comp. Dia. 0.:	2 in to 0.35 in(5	to 9 mm)		
Power LED	Green	Green		□ 1 Dual ½ in NPT Conduit Hubs						
Alarm LED	Red	Red		☐ 2 Single Cord Grip: Wire Comp. Dia. 0.39 in to 0.55 in(10 to 14 mm)						
Alert LED	Yellow	Yellow			½ in NPT Con					
Setpoint Adjustment	Single Turn Potentiometer	Single Turn Potentiometer		□ 4 Dual 0	Opening, ½ in N	PT Ports				
Time Delay Adjustment	Single Turn Potentiometer	Single Turn Potentiometer		□ 5 Single Cord Grip (Left) / Single Conduit Hub (Right)						
Reset Function	Momentary Pushbutton Switch	Momentary Pushbutton Switch		☐ 6 Single Conduit Hub (Left) / Single Cord Grip (Right)						
Self Test Function	Momentary Pushbutton Switch	Momentary Pushbutton Switch		Mounting: 685B0000X00						
Alarm/Alert Function Select	Latch or Continuous	Latch or Continuous		□ D Optional Model 080A209 Mounting Plate/Adapter						
Switch Mechanism Function Select	NO/NC	NO/NC	4	NOTES:						
				1) To obtain	60000 cpm (10	00 Hz) frequen	cy response, gr	ease must		
					all mechnical					
	is limited to approximately 30000					0000 cpm (500	Hz.)			
				2) Factory S	2) Factory Set.					
[6]				3) Active only during calibration mode.						
				4) Reset can also be engaged via external connection to common.						
				5) Current will fluctuate at frequencies below 300 cpm (5 Hz)						
		6) See PCB	Declaration of (Conformance PS	S051 for details					
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In the interest of constant product improvement, we reserve the right to change specifications without notice. Form DD030 Rev.F 2/23/99				e: 9/30/09	Date: 9/30/09	Date: 9/30/09	Date: 9/30/09	34179		