

Model Number

685B0X01C14

ELECTRONIC VIBRATION SWITCH SPECIFICATIONS

Revision: A
ECN #: 27665

DYNAMIC PERFORMANCE

Frequency Response ($\pm 3dB$)
Alarm Setpoint
Alert Setpoint
Alert/Alarm Time Delay
Turn on Time Delay

ENGLISH

120-60,000cpm
10 to 100% of Vibration Range
10 to 100% of Alarm Setpoint
0 - 45 seconds
20 seconds

SI

2-1000Hz
10 to 100% of Vibration Range
10 to 100% of Alarm Setpoint
0 - 45 seconds
20 seconds

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

OPTIONAL VERSIONS

ELECTRICAL

Power Supply
Sensor Type
Output (Current)
Raw Vibration Output ($\pm 10\%$)
Calibration Input
Dual Form C (SPDT) Relays

-None- Vibration Range: 685B0X01C14

- 0 0 to 1.5 in/s pk (0 to 38.1 mm/s pk)
- 1 0 to 5 g's pk (0 to 49 m/s² pk)
- 2 0 to 15 mils pk to pk (0 to 381 μ m pk to pk)
- 3 0 to 50 mils pk to pk (0 to 1.27 mm pk to pk)
- 4 0 to 3.0 in/s pk (0 to 76.2 mm/s pk)

ENVIRONMENTAL

Operating Temperature Range
Storage Temperature Range
Relative Humidity

10A/245Vac or 5A/30Vdc

NOTES:
1) To obtain 1000Hz frequency response, grease must be applied to all mechanical couplings. Otherwise, frequency response is limited to approximately 500Hz.
2) Factory Set.
3) Active only during calibration mode
4) Reset can also be engaged via external connection to common.
5) Current will fluctuate at frequencies below 5 Hz
6) See PCB Declaration of Conformance PS051 for details.
7) Hazardous Area Certification:

MECHANICAL

Case Dimension W x H x D:
Weight
Material
Input/Output Electrical Connectors
Screw Terminal Wire Size
Mounting Hole Size (max. diameter)
Mounting Screw Torque
Dual Conduit Hubs

4.48" x 4.58" x 4.48"
4 lbs
Aluminum Alloy
Screw Terminals
24 - 14 AWG
0.31 inch
2-5 ft. lbs.
1/2" -14 threaded NPT Female

114mm x 116mm x 114mm
1.8 kg
Aluminum Alloy
Screw Terminals
0.2 - 2.5 mm²
7.8 mm
3-7 Nm
N/A

CL I, DIV 1 GR B, C, D
CL II, DIV 1 GR E, F, G
CL III

INDICATOR/CONTROLS

Power LED
Alarm LED
Alert LED
Setpoint Adjustment
Time Delay Adjustment
Reset Function
Self Test Function
Alarm/Alert Function Select
Switch Mechanism Function Select
Calibration Mode

Green
Red
Yellow
Single Turn Potentiometer
Single Turn Potentiometer
Momentary Pushbutton Switch
Momentary Pushbutton Switch
Latch or Continuous
NO/NC
NO/OFF

Green
Red
Yellow
Single Turn Potentiometer
Single Turn Potentiometer
Momentary Pushbutton Switch
Momentary Pushbutton Switch
Latch or Continuous
NO/NC
NO/OFF



All specifications are at room temperature unless otherwise specified.

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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

Drawn: LH	Engineer: MJJ	Sales: JPJ	Approved: NF	Spec Number:
Date: 11/12/07	Date: 11/8/07	Date: 11/8/07	Date: 11/8/07	37423

SUPPLIED ACCESSORIES:
Calibration Certificate



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