Model Number

682B03

4-20MA DIN RAIL SIGNAL CONDITIONER/TRANSMITTER

Revision: A

ECN #: 32835

ENGLISH	<u>SI</u>
23 - 25 Vdc	23 - 25 \
100mA max.	100mA m
100mV/g [3]	100mV/
18Vdc/4mA, ±1V/±1mA [7], [8]	18Vdc/4mA, ±1V/±
0 - 1.2V Full Scale [6]	0 - 1.2V Fu
4-20mA	4-20m
4mA ±2% of Span	4mA ±2% o
16mA ±5.0%	16mA ±5.
0-5/10Vdc	0-5/10V
0Vdc ±2% of Span	0Vdc ±2% o
5/10Vdc ±5.0%	5/10Vdc ±
4-20mA	4-20m
4mA ±2% of Span	4mA ±2% o
	23 - 25 Vdc 100mA max. 100mV/g [3] 18Vdc/4mA, ±1V/±1mA [7], [8] 0 - 1.2V Full Scale [6] 4-20mA 4mA ±2% of Span 16mA ±5.0% 0-5/10Vdc 0Vdc ±2% of Span 5/10Vdc ±5.0% 4-20mA

Vdc max //g [3] ±1mA [7], [8] ull Scale [6] nΑ of Span 5.0% Vdc of Span ±5.0% 4mA ±2% of Span 16mA ±5.0% ±1% of Input Vibration

1 1 3Hz to 10kHz [2],[4],[5] 3Hz to 10kHz [2],[4],[5] <1mA <1mA

ENVIRONMENTAL
Warm Up
Operating Temperature Range
Storage Temperature Range
Relative Humidity

<2 minutes 32 to 158°F -40 to 257°F <95% (Non-Condensing)

16mA ±5.0%

±1% of Input Vibration

<2 minutes 0 to 70°C -40 to 125°C <95% (Non-Condensing)

Neiative Humbility

Raw Vibration Output

Frequency Response:

Fault Current Output

Input Channels

MECHANICAL

Case Dimension W x H x D:

Weight

Material

Input/Output Electrical Connectors

O.9 x 3.9 x 4.5 in.

6.4 oz. max.

Polyamide

Removable Screw Terminals

Raw Vibration Connector

Screw Terminal Wire Size

Din Rail Mount

BNC Jack

24 – 14 AWG

1.38 in.

22.5 x 99 x 114.5 mm 181 grams Polyamide

Removable Screw Terminals BNC Jack 0.2 – 2.5 mm² 35mm

INDICATOR

Displacement

Span

Power LED GREEN GREEN
Fault LED RED RED
Acceleration GREEN GREEN
Velocity GREEN GREEN

GREEN
All specifications are at room temperature unless otherwise specified.

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.

N/A

NOTES:

1) Internal DIP Switch Selection:

- Acceleration: 5.00g, 10.00g, 20.00g

- Velocity: 0.50 in/sec, 1.00 in/sec, 2.00 in/sec

- Displacement: 10.0 mils p-p, 20.0mils p-p, 40.0 mils p-p

- Peak or RMS

- 0-5 or 0-10Vdc Output

2) Frequency Response Tolerances:

Acceleration: -3dB at 3Hz ±0.5Hz, -3dB at 10kHz ±0.5kHz Velocity: -3dB at 3.5Hz ±0.5Hz, -3dB at 10kHz ±0.5kHz Displacement: -3dB at 3.5Hz ±0.5Hz, 1000Hz max.

- 3) Output measurement range is based upon input from a 100mV/g accelerometer and will be scaled inversely proportional to any percentage deviation of this input.
- 4) Output Current/Voltage will fluctuate at frequencies below 5 Hz.
- 5) Attenuation is -40dB/Decade
- 6) Requires an accelerometer with TO option output.
- 7) Jumper selectable for 18Vdc Regulated, 24Vdc Power Supply Voltage, or ICP® Sensor Excitation Disabled.
- 8) 4mA Constant Current Diode is Internal to 682BX3.

CERTIFICATIONS:



See PCB Declaration of Conformance PS051 for details.

All specifications are at room temperature unless otherwise

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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

GREEN

 Drawn: LH
 Engineer: NF
 Sales: EGY
 Approved: EB
 Spec Number:

 Date: 4/29/10
 Date: 4/24/10
 Date: 4/24/10
 Date: 4/26/10
 40536

