Model Number

4-20 MA DIN RAIL SIGNAL CONDITIONER/TRANSMITTER

Revision: NR ECN #: 50075

682A 14	1 20 1111 10 112 51 51 111 12		
Performance	ENGLISH	SI	
Channels	1	1	
Input Signal(Vibration)	± 100 mV/g	$\pm 10.2 \text{ mV/(m/s}^2)$	[1]
Output Signal(DC Vibration)	4 to 20 mA	4 to 20 mA	[2]
Output Signal (AC Vibration)	100 mV/g	10.2 mV/(m/s ²)	[3]
Frequency Range(- 3 dB)(Velocity)	210 to 600,000 cpm	3.5 to 10k Hz	[4][5][6]
Output Range(DC Velocity)	0 to 1.00 in/sec pk	0 to 25.4 mm/s pk	[1]
Environmental	•	·	
Temperature Range(Operating)	-13 to 158 °F	-25 to 70 °C	
Temperature Range(Storage)	-40 to 257 °F	-40 to 125 ℃	
Humidity Range(Non-Condensing)	0 to 95 %	0 to 95 %	
Electrical			
Power Required	DC Power	DC Power	
DC Power	23 to 25 VDC	23 to 25 VDC	
DC Power(maximum)	100 mA	100 mA	
Settling Time	< 2 min	< 2 min	
Excitation Voltage(delivered to sensor)	19 to 21 VDC	19 to 21 VDC	
Constant Current Excitation(delivered to sensor)	3 to 5 mA	3 to 5 mA	
Output Span(± 5.0 %)(DC Vibration Current Output)	16 mA	16 mA	
Physical			
Electrical Connector(input/output)	Removable Screw Terminals	Removable Screw Terminals	
Electrical Connector(raw vibration output)	BNC Jack	BNC Jack	
Housing Material	Polyamide	Polyamide	
Size (Height x Width x Depth)	3.9 in x 0.9 in x 4.5 in	99 mm x 22.5 mm x 114.5 mm	
Weight(Maximum)	6.4 oz	127	
Screw Terminal Wire Size	24-14 AWG	24-14 AWG	
Din Rail Mount	1.38 in	35 mm	
Status Indicator(Power "on")	Green LED	Green LED	
Status Indicator(Input Fault)	Red LED	Red LED	

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.

NOTES

- [1]Output measurement range is based upon input from 100 mV/g ICP® accelerometer and will be scaled inversely proportional to any percentage deviation of this input.
- [2]Output current voltage will fluctuate at frequencies below 5 Hz.
- [3]Achieved with 100 mV/g ICP® accelerometer input.
- [4] Attenuation is -40 dB/decade.
- [5] The low frequency tolerance is accurate within \pm 0.5 Hz of the specified frequency.
- [6] The high frequency tolerance is accurate within ± 1.0 kHz of specified frequency.
- [7]See PCB Declaration of Conformance PS124 for details.

CE

 Entered: LK
 Engineer: gs
 Sales: MC
 Approved: BAM
 Spec Number:

 Date: 10/30/2019
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