

Model Number
682A15

4-20 MA DIN RAIL SIGNAL CONDITIONER/TRANSMITTER

Revision: NR
ECN #: 50075

Performance

	ENGLISH	SI	
Channels	1	1	
Input Signal(Vibration)	± 100 mV/g	± 10.2 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 rms	0 to 25.4 mm/s rms	[1]

Environmental

Temperature Range(Operating)	-13 to 158 °F	-25 to 70 °C
Temperature Range(Storage)	-40 to 257 °F	-40 to 125 °C
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 ± 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.



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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