1-808 Vibration Transmitter

Applications

Industrial turbines
Remote machinery monitoring
Turbine-driven power generators
Gas transmission compressors

Features

Calibrated 4-20 mA output proportion to transducer input (specials available on request)
Buffered output
Includes two filters
Signal cable monitoring

Description

Simplicity is the goal behind the CEC 1-808 vibration transmitter. The 1-808 is designed for the industrial environment where machine monitoring is important and space is at a premium. Each 1-808 vibration transmitter includes a high-pass and low pass filter and the transmitters are configured to the customer's specification at CEC's facility.

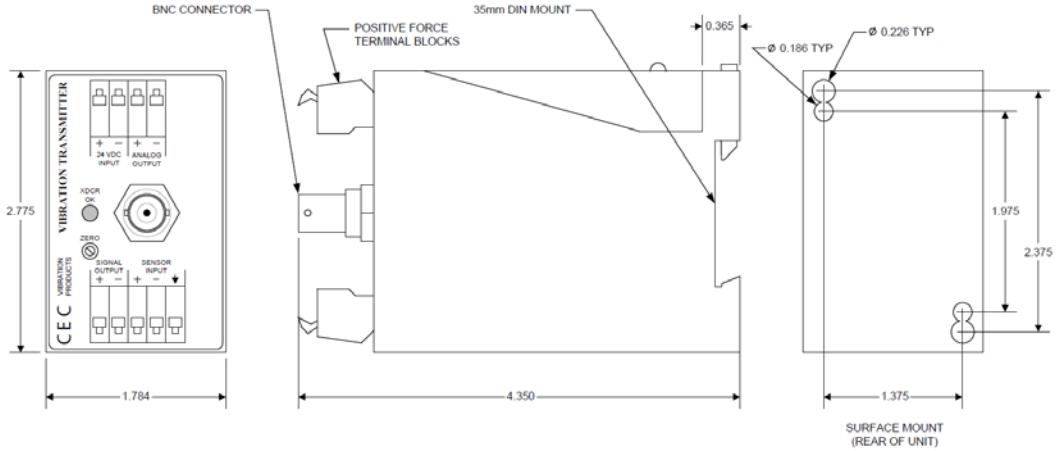
By providing a calibrated 4-20 mA output signal, the 1-808 transmitter is ideal for use with PLCs, DCs, remote displays or other electronic systems. One of the two key features of the transmitter is its ability to monitor the sensor and cable integrity. In the event of a sensor or cable failure the current output will drive to 2.5 mA and the green status LED will be extinguished.

The second key feature consists of a buffered output connection which enables the user to connect across the vibration sensor without affecting the analogue output. On-line vibration analysis and testing of the senor is now a simple procedure.

Specifications

Maximum Load Resistance:	600 Ohms
Humidity Range:	0 to 95% Relative, non-condensing
Connectors:	Positive force terminal block contacts
Frequency Response:	5 Hz to 20,000 Hz ±5%
Power:	24 to 32 VDC unregulated at 100 mA nominal
Isolation:	1000 VDC minimum
Ambient Temperature:	-40°C to +80°C
Weight:	6.4 ounces

Hazardous Are Rating
CSA Certified Class 1 (A, B, C and D): Div 2 FM: Certified NI/1/2/ABCD/T5; TA = 80°C



Ordering Information

Example:

CEC Part Number: **1 - 808 - VS - 145 - 5 4 3 - 2 6**

Input is from a Velocity Transducer @145 mV/ips RMS. The output is 4-20 mA scaled from 0 to 5 inches velocity. The BandPass filter is 10 to 1000 Hz

Input Type

AC	mV / g	constant current
AD	pC / g	differential charge
AM	mV / g	millivolt input
DM	mV / mil	millivolt input
VC	mV / ips	constant current
VM	mV / ips	millivolt input
VS	mV / ips	DC self generating

Sensitivity

010	-	999

Analog Output

2	0 - 10 VDC
4	4 - 20 mA
5	0 - 5 VDC

Output Mode

1	g's pk	5	ips, RMS
2	ips, pk	6	mm/s, pk
3	mils, pk-pk	7	mm/s, RMS
4	g's RMS	8	µm, pk-pk

Full Scale Range

1	0 - 1	5	0 - 20
2	0 - 2	6	0 - 50
3	0 - 5	7	0 - 100
4	0 - 10	A	0 - 40

Filters

High Pass		Low Pass	
0	None	0	None
1	5 Hz	1	50 Hz
2	10 Hz	2	70 Hz
3	20 Hz	3	100 Hz
4	50 Hz	4	200 Hz
5	100 Hz	5	500 Hz
6	200 Hz	6	1000 Hz
7	500 Hz	7	2000 Hz
8	1000 Hz	8	5000 Hz
A	15 Hz	A	12,000 Hz
		B	350 Hz
		C	3000 Hz