

The 8066 g-mac powers any constant-current accelerometer and provides two outputs; velocity and peak g. The first is a measure of overall system vibration while the second provides large signals for small changes in high frequency vibrations and thus is sensitive to bearing faults. An AC output via a BNC connector is available for complete vibration analysis with an FFT analyser while the user can select 4-20mA or 0-10V outputs for monitoring the DC vibration signals in a PLC, DCS or other industrial controller.

MTN/8066 g-mac



Applications

Raw, accelerometer-generated AC voltage signal
ISO 10816-3 overall RMS velocity signal at 4-20mA or 0-10VDC
Peak to peak acceleration signal at 4-20mA or 0-10VDC

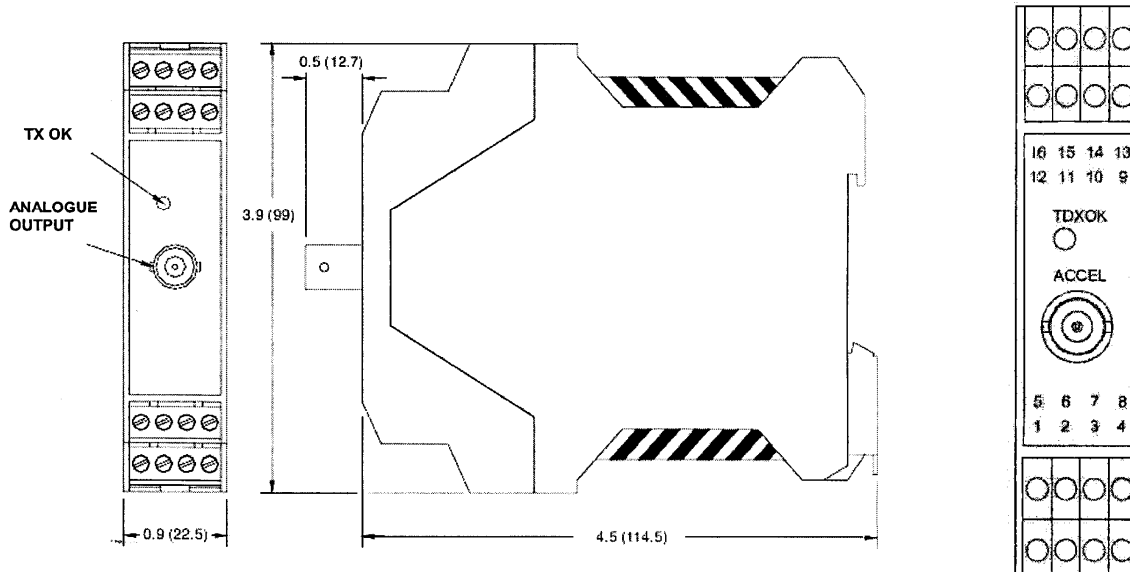
The g-mac can be configured to give a large signal when small high frequency variations are present. These high frequencies are indicative of bearing and gear problems but usually go undetected because they are swamped by the overall vibration signal.

The g-mac presents a cost-effective alternative to standard complex vibration monitoring instrumentation and requires minimal training.

Features

- Constant (ICP[®]) current or voltage accelerometer input configurable for 50 or 100mV/g units
- Front panel BNC with buffered native accelerometer signal
- Native output also on screw terminals for multiple signal paths
- Bias voltage monitoring LED on front panel for easy status checking
- Internal filters 12dB/octave
- Low pass at 1, 3.5 or 5kHz
- High pass at 2, 10 or 100Hz
- Acceleration pk-pk in 10, 20, 40 and 80g ranges
- Velocity RMS in 10, 25, 50 and 100mm/sec ranges
- g-pk response delay selectable at 120 or 1200ms
- +24V supply with paired terminals for loop through

Dimensions



Pin Assignments

1. Signal I/P (2)
2. Signal Return (2)
3. Shield (2)
4. No Connection
5. Signal I/P (1)
6. Signal Return (1)
7. Shield (1)
8. No Connection
9. 24VDC Power Supply in (1)
10. 24VDC Power Supply out (2)
11. 0-10VDC +ve O/P
12. 4-20mA +ve O/P
13. Power Supply Ground in (1)
14. Power Supply Ground out (2)
15. 0-10VDC -ve O/P
16. 4-20mA -ve O/P