

## MTN/8066 g-mac Vibration Module

A DIN rail-mounted single-sensor signal conditioning unit in a 22.5mm format providing early warning of bearing and gear faults, imbalance, misalignment and looseness with three different vibration output signals:

### Applications

- Raw, accelerometer-generated AC voltage signal
- ISO 10816-3 overall RMS velocity signal at 4-20mA or 0-10VDC (using 2Hz or 1 kHz)
- 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<sup>®</sup>) 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

ICP<sup>®</sup> is a registered trademark of PCB Piezotronics Europe GmbH, Linnich, Germany

Monitran Ltd

Monitor House | 33 Hazlemere Road | Penn | Bucks | HP10 8AD | UK

Tel: +44 (0)1494 816569

Email: [info@monitran.com](mailto:info@monitran.com)

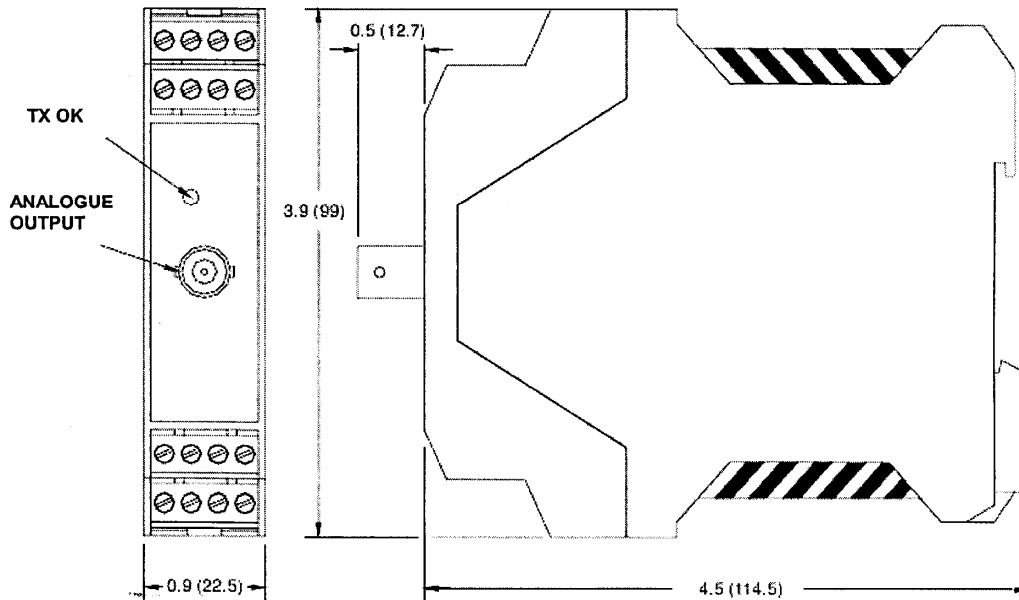
Registered in England No. 2054040

Fax: +44 (0)1494 812256

Web: [www.monitran.com](http://www.monitran.com)

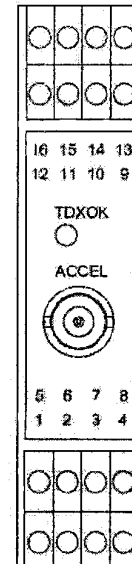
Vat No. GB442 4883 40

## 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. +24 VDC Power Supply In (1)
10. +24 VDC Power Supply Out (2)
11. 0-10 VDC +ve O/P
12. 4-20 mA +ve O/P
13. Power Supply Ground In (1)
14. Power Supply Ground Out (2)
15. 0-10 VDC -ve O/P
16. 4-20 mA -ve O/P



Monitran Ltd

Monitor House | 33 Hazlemere Road | Penn | Bucks | HP10 8AD | UK

Tel: +44 (0)1494 816569 Email: [info@monitran.com](mailto:info@monitran.com) Registered in England No. 2054040

Fax: +44 (0)1494 812256 Web: [www.monitran.com](http://www.monitran.com) Vat No. GB442 4883 40

