Universal Bearing Monitor additional information

1. Each Central Control Box can monitor up to six bearings. Each bearing requires its own signal processor. The signal processors and the Central Control Box are connected together by ethernet. The central processor polls through each bearing in turn to monitor each one.

2. On the central control box there are two bright LEDs, a red and a yellow. The yellow is used to signal, when on continuously, that there is a warning of future bearing failure. The yellow also flashes briefly every thirty seconds to indicate that the system is running normally. The red is used as an alarm to show that a bearing has actually failed. A relay output is standard which is actuated at the same time as the red LED. There are normally open and normally closed contacts. These may be used for an external alarm, or to shut down the machine to prevent damage.

3. A standard PC may be used to communicate with the system. This is also carried out over ethernet. The universal bearing monitor may be permanently connected to a desktop machine at a remote location, or a laptop may be plugged in when information is required. For example, when a warning lamp is displayed. If only one bearing is monitored the screen display is simply that relating to the specific bearing that is being monitored. If multiple bearings are monitored there are on screen buttons to display each bearing.

4. The software logs information on a memory stick which is removable in the event of a major hardware failure. The information on each bearing is stored in a circular buffer so that the history leading up to an alarm or warning may be examined.

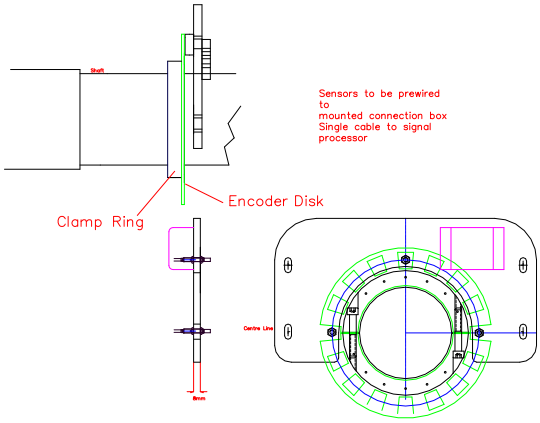
5. The correct functioning of each sensor is checked, and, when connected to a screen, on the display for each bearing icons for each sensor are displayed. Green for correct function, red for fault. A rapid flashing of the yellow LED indicates a sensor fault if no screen is connected.

6. The clamp on encoder disks are supplied to fit the shaft sizes specified by the user.

7. Each sensor mount is prewired and sized to match the encoder disks.

8. The encoder disks must be mounted by the user on suitable brackets. Gyrometric provide a design service for the mounting brackets at extra cost.

9. There are additional features available at extra cost. These include analysis of torsional vibrations, dynamic alignment monitoring and torque measurement in shafts. These measurements may all be alarmed so that the asset can be protected from damage.



Specification

Power Supply - 18-32v DC 1 amp

Environmental- Enclosures and sensors are designed to IP67 with a temperature range of -40 to +60 degrees C

Warning and alarm relay output contacts- Up to 30 volts 3 amps

Communications over ethernet

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