

1-axis signal converter

MR660 series



Product description

The 1-axis signal converter module is the evaluation unit for all MICRONOR acceleration sensors of the MR660 series. The modules are designed as 3U 19" rack inserts. The signals are connected to the rear wall and the configuration inputs and outputs on the front.

application

There are many areas of application for the fiber optic acceleration sensor MR660 such as end winding monitoring of generators, monitoring of bearings, detection of micro movements in high voltage areas such as transformers and high voltage systems as well as in strong electromagnetic interfering environments. The MR660 acceleration sensor is also ideally suited for use in the HF area for antennas and systems.

The MR660 acceleration sensor can also be used in highly explosive environments such as refineries, mining, etc. as the sensor is classified as a "Simple Apparatus" according to IEC 60079-28 (inherently safe optical radiation). The MR660 thus fulfills the requirements of ATEX Group I and II for all categories for gas and dust as well as NEC 500/505 classes 1..3 and zones 0, 1, 2, 20, 21, 22.

The sensor and the optical cable have an insulation to the evaluation electronics of > 80kV RMS the connection is 100% fiber optic and therefore passive.

Technical specifications

Mechanical and electrical characteristics	
Output signal	100mV / g
Frequency range	1-1000Hz
Maximum acceleration	40g
Optical connector	E-2000 / PC
Feed	24 VDC
Electricity demand	150mA
Working temperature range	0 °C ... + 55 °C
Degree of protection	IP50 according to EN 60529
Conform	EN61000-6-1, EN 61000-6-3, EN61000-6-4, CE, RoHS

