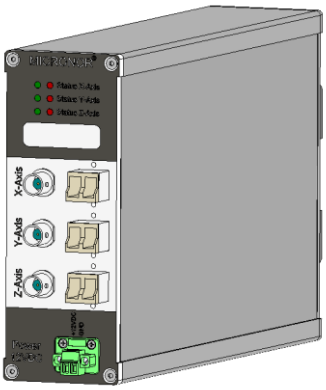
Fibre optical Acceleration Sensor

MICRONOR®
optical sensors

9800.73.002 MR660-3



For industrial, R&D, Testlabs

- **Heavy Duty version for indoor and outdoor application**
- **Absolut EMI/RFI Immune**
- **100% passive Sensor, no metal, no electric inside**
- **Huge Frequency range**
- **High responsibility and environment friendly**
- **Signal transfer over 200m**

Description

The MR660 fibre optical Acceleration Sensor are develop to measure vibration in High voltage or ATEX zones, especially for Pantograph monitoring, Generators, Transformators, mining as well Oil and Gas industry. Complete Sensor and cables are 100& passive without any electronic, therefore is no impact of measuring zone. Sensors are available in Aluminium and ceramically.

Signal transmitting work over 200m, Output Signal is 100mV/g Peak to Peak with an bandwidth up to 330Hz or 1000Hz
.

Application, Benefit

There are several field of application for fibre optical acceleration sensor. For example End winding, controlling of stock, detection of micro movement in high voltage application. Operation under HF for measurement under antennas and system are also possible.
With the heavy duty design the sensor are also working in high explosive areas like mining, refinery, the Sensor is classified as „Simple Apparatus“ after IEC 60079-28 (inherently safe optical radiation). With this the sensor is approved for ATEX Group I and II as well all categories gas and dust.

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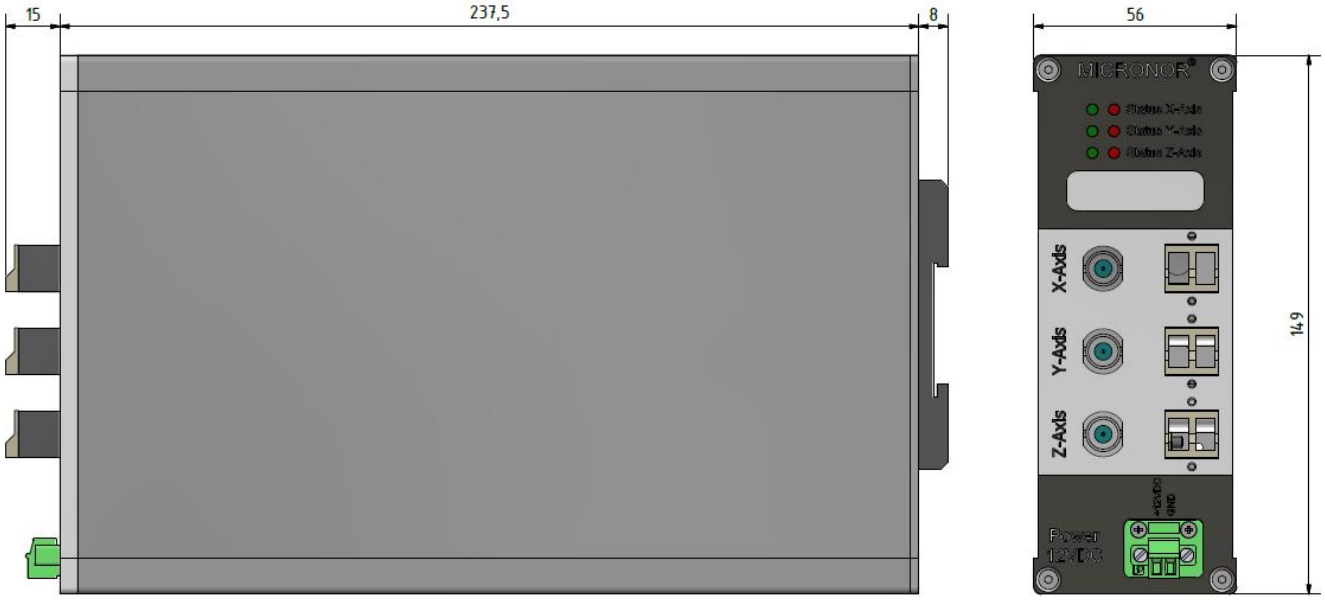
9800.73.003	MR660-3 – Remote Controller 3-Axis
Nominal Sensibility	100 mV/g
Input Voltage	12 VDC, +- 5%
Output impedance	<100 Ohm
Phase shift	0 deg
Linearity	< 5 %
Cross Sensibility	< 3 %
Basic load Sensibility	0.0001 g/micro-m/m
Temperature range	-25 °C bis 85°C
MTBF	> 100'000 hours
Protection	IP50

Dimension



Technische Änderungen vorbehalten *Date: 28.12.2016*

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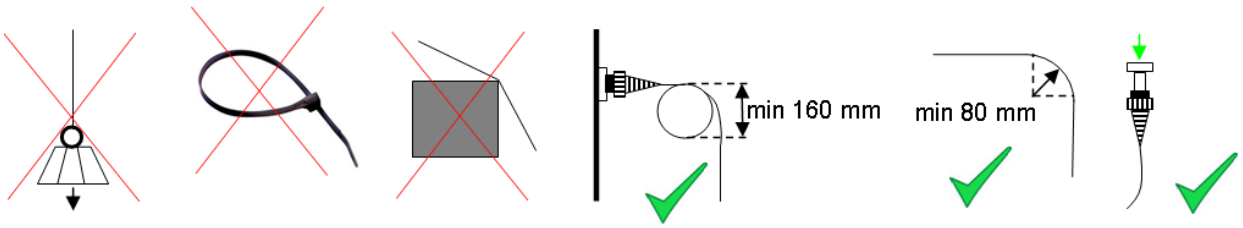
Installation Rules

For installation of the fibre optical cable please respect the following Attention/rules.

Please note when installing bending radius and stress on the cable.

The optical fibres should be treated carefully, and should not be sharply.
If bending of fibres is required, it is imperative that a minimum radius of 80mm be maintained at all times. Failure to do so can result in fibre optic breakage, rendering the unit permanently inoperable. The fibre have to fix a good as possible, fibre movement can generate noise.



- **No force on cable**
- **Cable not fix with cable ties**
- **Do not buckling**
- **Minimum bending radius 80mm**
- **Always use dust cabs and protection on connectors**

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Order Coder

	9800.73.001	MR660-1 – Remote Controller 1-Axis
	9800.73.002	MR660-2 – Remote Controller 2-Axis
	9800.73.002	MR660-2 – Remote Controller 2-Axis

Optiona

	9222.10.224	ZMR660 – Extensions cable 50m FO4 to FO4
	6099.26.185	Connector MC 1.5/2-STF-3.81 (2 Pin)
	6099.26.180	Holder MR661 ACC Sensor

Sensor for Series MR660

	9800.72.004	MR661 - 1 Axis Acceleration Sensor with 6m cable and FO4 Connector
	9800.72.001	MR662 - 1 Axis Acceleration Sensor with 6m cable and FO4 Connector
	9800.72.002	MR663 - 2 Axis Acceleration Sensor with 6m cable and FO4 Connector
	9800.72.003	MR664 - 3 Axis Acceleration Sensor with 6m cable and E200 Connector

Questions ? Call: +41 (0)44 843 40 20 or Mail: sales@micronor.ch

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