

VA-3D MG

3-AXIS ACCELERATION- AND GRAVITY SENSOR

Properties

- Intelligent 3-axis sensor
- MEMS technology
- Capture of acceleration signals
- Adapted for use with GEMVM monitoring systems
- Typical use for machine spindles and axes
- Degree of protection IP66/IPx7, resistant to cooling lubricants
- Temperature compensated
- Compact design
- Interfaces: IEPE and RS485
- Optional accessory: magnetic base for simple and quick installation

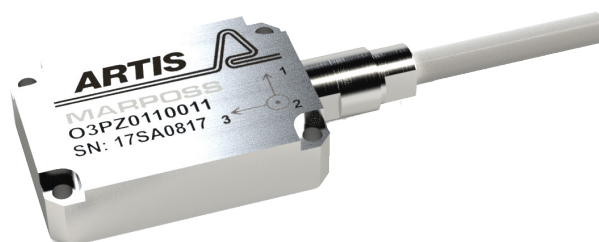
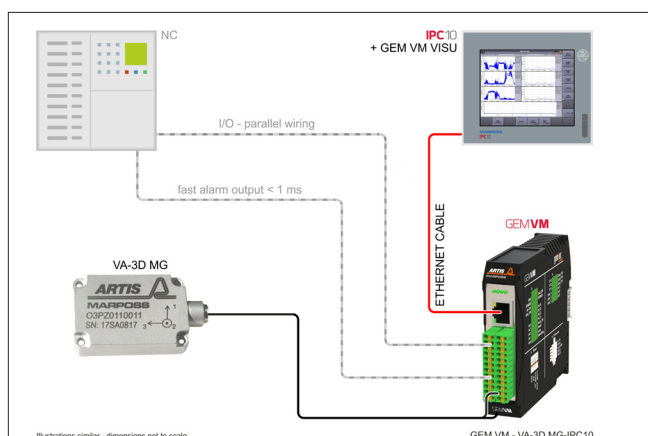
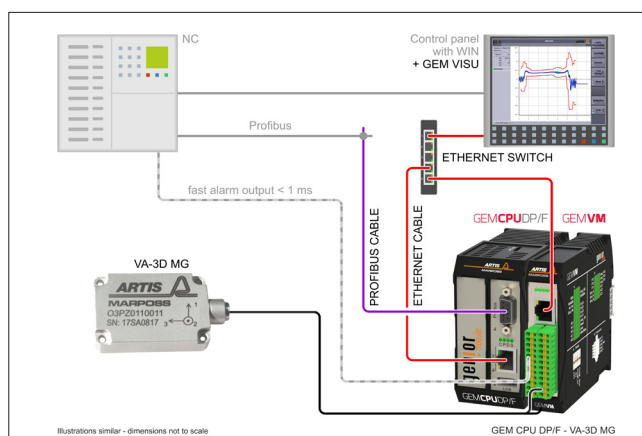


Illustration similar



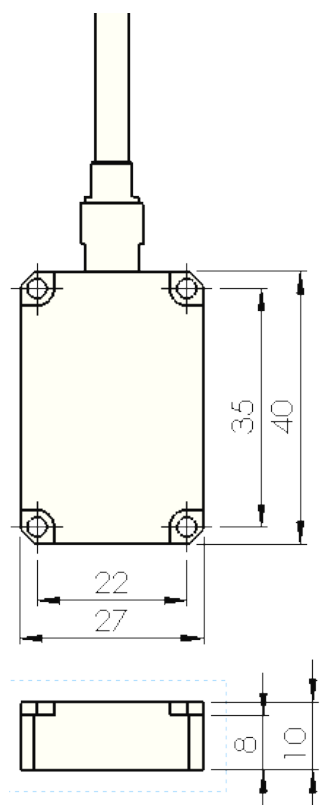
Illustrations similar - dimensions not to scale

Application example:
VA-3D MG sensor with a GEMVM monitoring module, visualization via IPC-operator panel (or alternatively via Windows-based PCs or Siemens 840D TCU (Linux))



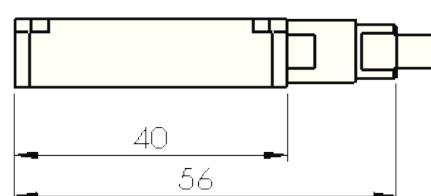
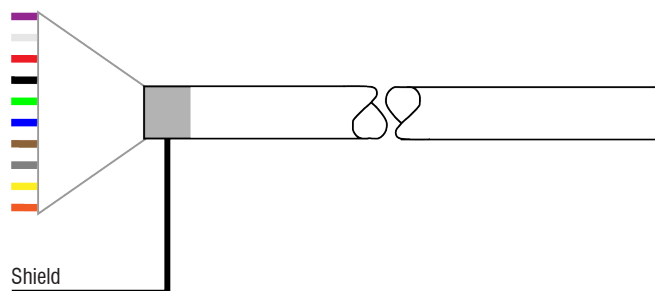
Illustrations similar - dimensions not to scale

Application example:
VA-3D MG sensor with a GEMVM monitoring module and GENIOR MODULAR Tool and Process Monitoring System



Connections

purple	axis 1	signal
white	axis 1	GND
red	axis 2	signal
black	axis 2	GND
green	axis 3	signal
blue	axis 3	GND
brown	power	5 V DC
gray	power	GND
yellow	+ RS485	
orange	- RS485	



ARTICLE NUMBER	
CODE	O3PZ0110011

GENERAL DATA	
DIMENSIONS	see drawing
WEIGHT	0,06 kg
HOUSING MATERIAL	AISI 303
DEGREE OF PROTECTION (SENSOR WITH CABLE)	IP67 resistant to cooling lubricants
OPERATING TEMPERATURE	0 °C ... +60 °C
MOUNTING	Screw connection, 4 x M2.5 > 15 mm

ELECTRICAL PROPERTIES	
VOLTAGE SUPPLY	as per IEPE
OPEN CIRCUIT VOLTAGE	
SENSITIVITY PER AXIS	100 mV/g, (10.2 mV/m/s ²)
TOLERANCE	± 10 %

ACCELERATION INPUT	IEPE standard (2 – 4 mAdc 18 – 24 Vdc)
MEASURING RANGE PER AXIS	± 8 g
FREQUENCY RANGE	0 Hz – 2.8 kHz: Gravity: 0 Hz – 10 Hz IEPE: 10 Hz – 2.8 kHz
RESONANCE FREQUENCY	
MAX. ACCELERATION	
OUTPUT IMPEDANCE	
CONFORMITY	CE, UKCA

PU-CABLE	
CABLE TYPE	Shielded cable, suitable for drag chains
CABLE DIAMETER	5.3 mm
CABLE LENGTH	10 m
WIRE SIZE	8 X 29 AWG / 2 x 26 AWG
BENDING RADIUS	7.5 x cable diameter



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For a full list of address locations, please consult the Marposs official website

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