

IAC-HiRes-I-01



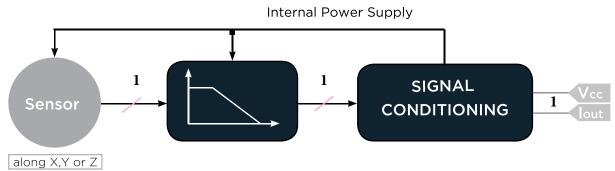
HIGH RESOLUTION INDUSTRIAL ACCELEROMETER (4-20 mA)



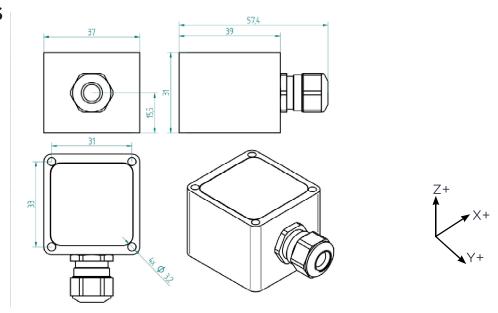
PROPERTIES

- 1 axis, low noise, high resolution
- Suited for direct connection to standard control and measurement equipment, e.g. PLCs or panel meters
- Embedded 4..20mA signal conditioning
- Galvanically Isolated
- Protected against false polarization
- Compact and rugged design
- Protection grade IP67

BLOCK DIAGRAM



DIMENSIONS



SPECIFICATIONS - ALL MODELS

OUTPUT / CHANNEL	Output Range	420mA	
	Supply voltage	1030 VDC	
	Lower frequency limit	0 Hz (DC)	
	Non-linearity	± 0.5 % F.S.	
	Sensitivity error	0.5 % typ 1 % max.	
	Transverse Sensitivity	2 % typ 3 % max.	
	Offset	0.2 % F.S. typ 0.5 % F.S. max.	
	Destruction limit	± 5000g	
ENVIRONMENTAL		Operating	Non- Operating
ENVIRONMENTAL CHARACTERISTICS	Operating temperature range	- 4080 °C ⁽¹⁾	- 55125 °C
	Temperature coefficient of sensitivity	± 0.03 %/°C	
	Temperature drift of zero point	± 0.02 % F.S./°C	
	Protection grade	IP67	
MECHANICAL DATA	Weight Without Cable	100gr (188g ⁽²⁾)	
	Case Material	Aluminum (MIL-A-8625 Type II coating) (2)	

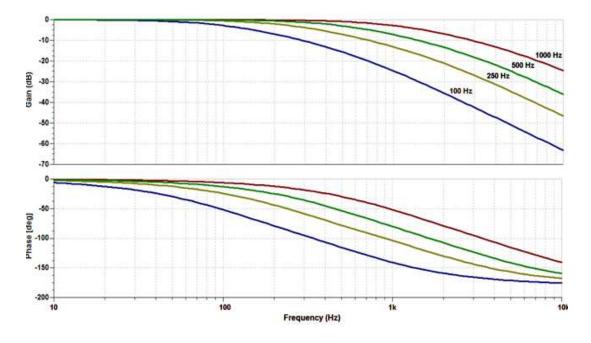
⁽¹⁾ Maximum temperature due to accelerometer cable - operating temperature up to ±125°C possible with special cable upon request

PERFORMANCES - BY MODEL

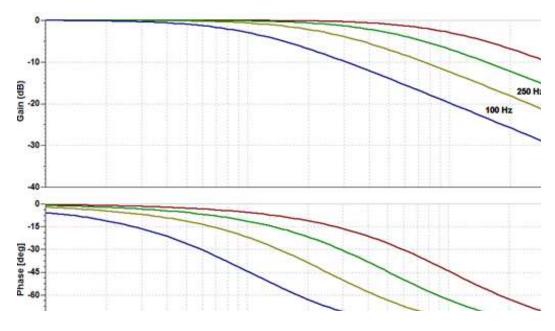
Range	Sensitivity	Frequency Response (-3dB)	Noise
g	μ A/g	Hz	μg/√Hz
±2	4000	0 - 400	8
±5	1600	0 - 600	10
±10	800	0 - 1000	13
±25	320	0 - 1500	28
±50	160	0 - 2000	53
±100	80	0 - 2500	100
±200	40	0 - 3000	200
±400	20	0 - 4000	400

⁽²⁾ Stainless Steel Casing and Cable Gland A4 (AISI316) Grade Upon Request (e.g. for offshore/marine environment)

POSSIBLE FILTER AMPLITUDE RESPONSES

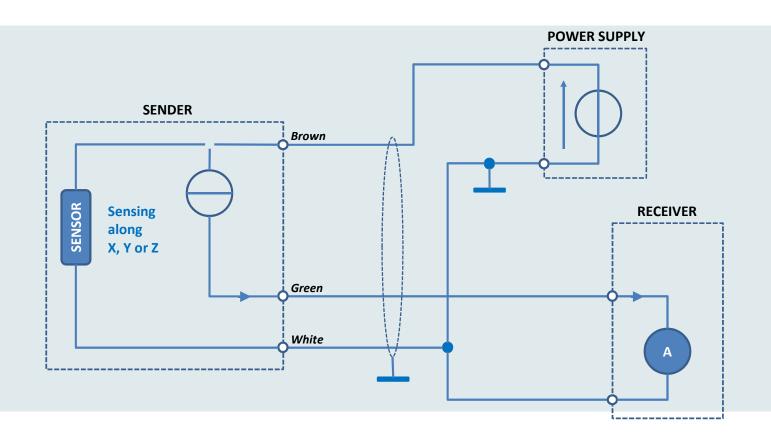


2nd order filters



1st order filters

ELECTRICAL CONNECTIONS



ORDERING INFORMATION

