

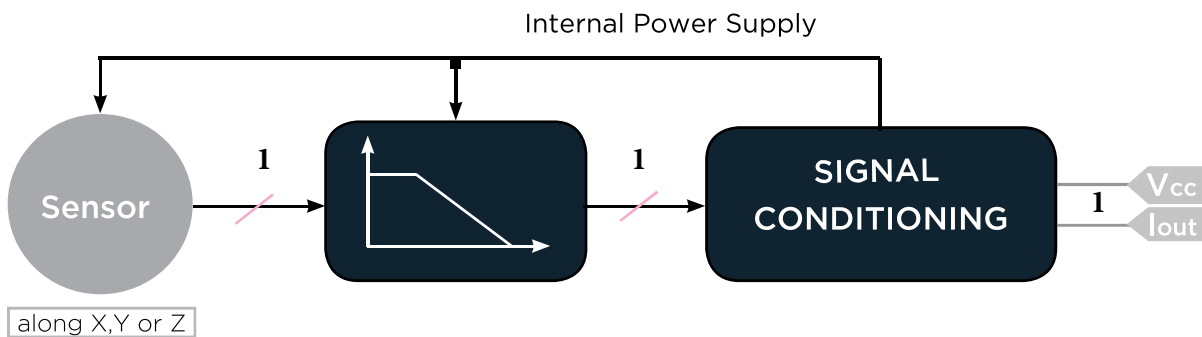
### HIGH RESOLUTION INDUSTRIAL ACCELEROMETER (4-20 mA)



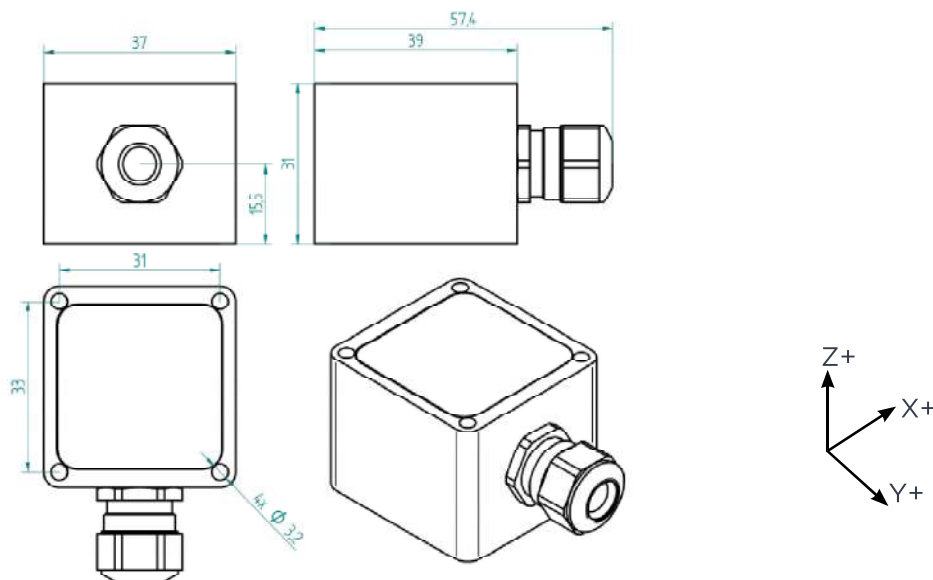
#### PROPERTIES

- 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

<b>OUTPUT / CHANNEL</b>	Output Range	4..20mA	
	Supply voltage	10...30 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	
<b>ENVIRONMENTAL CHARACTERISTICS</b>		<i>Operating</i>	<i>Non-Operating</i>
	Operating temperature range	- 40...80 °C <sup>(1)</sup>	- 55...125 °C
	Temperature coefficient of sensitivity	± 0.03 %/°C	
	Temperature drift of zero point	± 0.02 % F.S./°C	
	Protection grade	IP67	
<b>MECHANICAL DATA</b>	Weight Without Cable	100gr (188g <sup>(2)</sup> )	
	Case Material	Aluminum (MIL-A-8625 Type II coating) <sup>(2)</sup>	
	Mounting	3.2 mm diameter holes (4x)	

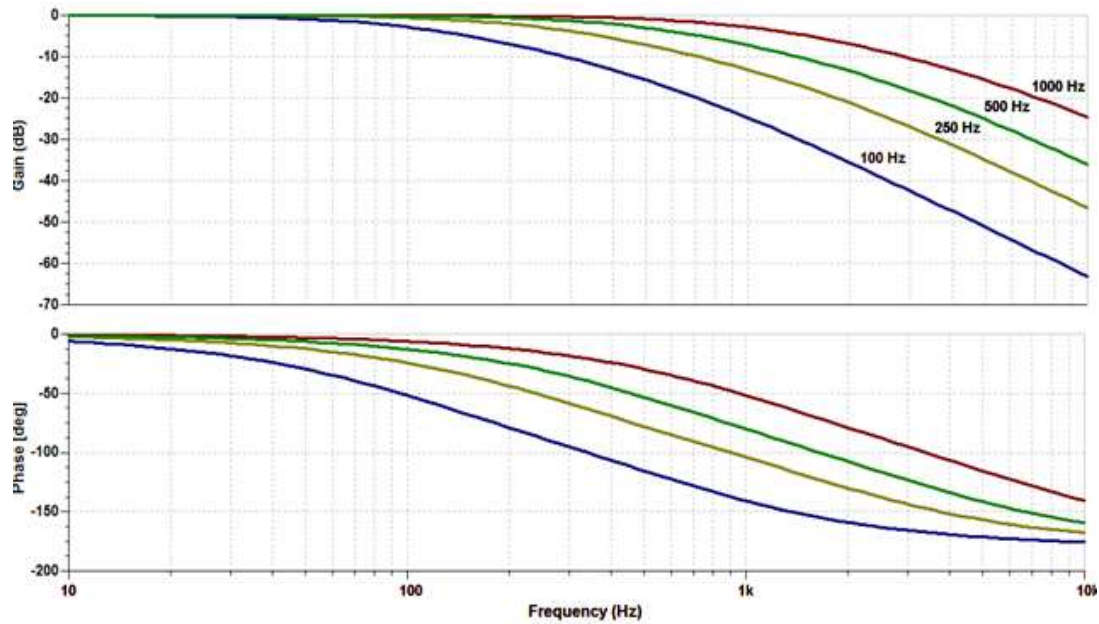
<sup>(1)</sup> Maximum temperature due to accelerometer cable - operating temperature up to ±125°C possible with special cable upon request

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

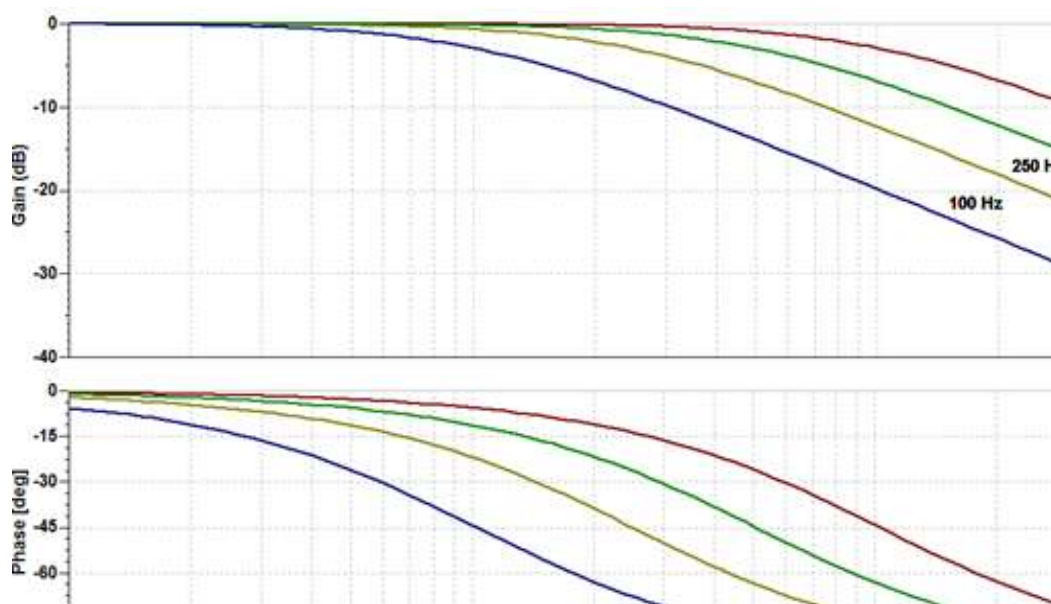
## PERFORMANCES - BY MODEL

Range	Sensitivity	Frequency Response (-3dB)	Noise
g	μA/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

# POSSIBLE FILTER AMPLITUDE RESPONSES

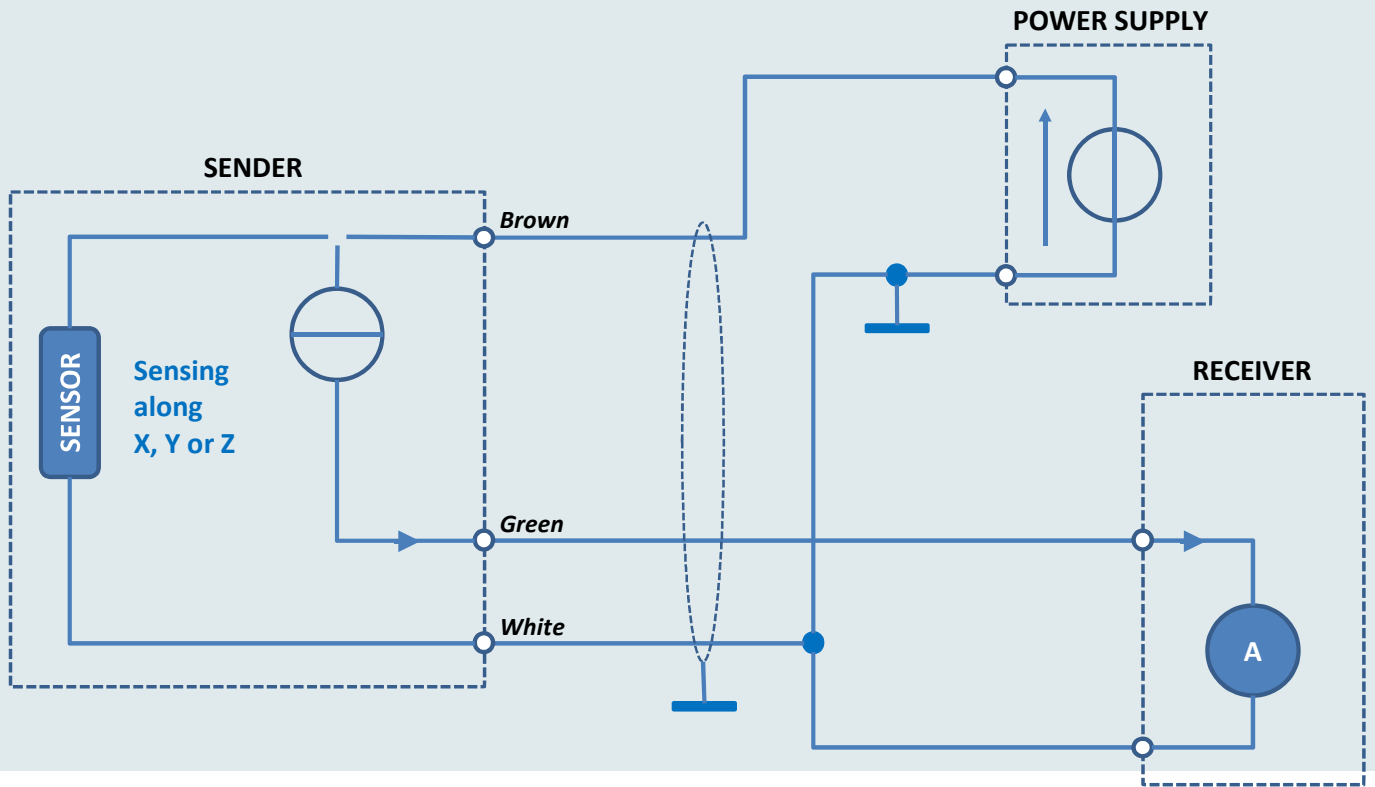


2<sup>nd</sup> order filters



1<sup>st</sup> order filters

# ELECTRICAL CONNECTIONS



## ORDERING INFORMATION

IAC	-	HiRes	-	I	-	01	-	A	-	X g	-	XXXX Hz	-	X	-	XX.X m	
								<b>Sensing Axes</b>		<b>Range</b>		<b>Low Pass Filter Frequency</b>		<b>Filter Order</b>		<b>Cable Length</b>	
								X		2    ± 2g		0100    100Hz		1    1 <sup>st</sup> order			
								Y		5    ± 5g		0250    250Hz		2    2 <sup>nd</sup> order			
								Z		10    ± 10g		0500    500Hz					
										25    ± 25g		1000    1000Hz					
										50    ± 50g							
										100    ± 100g							
										200    ± 200g							
										400    ± 400g							