

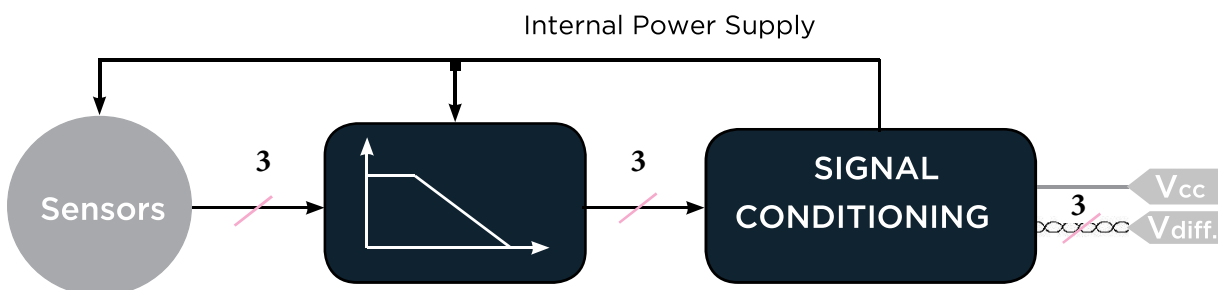
## HIGH RESOLUTION INDUSTRIAL ACCELEROMETER



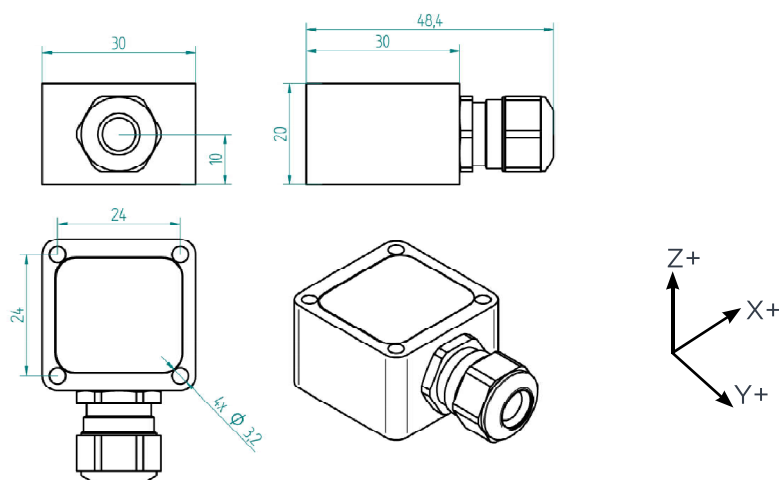
### PROPERTIES

- 3-axis, low noise accelerometer
- Amplified  $\pm 4V$  differential output
- Suited for direct connection to standard control and measurement equipment, e.g. PLCs or panel meters
- Embedded signal conditioning
- Compact and rugged design
- Protection grade IP67

### BLOCK DIAGRAM



### DIMENSIONS



## SPECIFICATIONS - ALL MODELS

<b>OUTPUT / CHANNEL</b>	Output Range	± 4V	
	Supply voltage	10...30VDC	
	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	40 gr	
	Case Material	Aluminum (MIL-A-8625 Type II coating) <sup>(2)</sup>	
	Mounting	3.2 mm diameter holes (4x)	

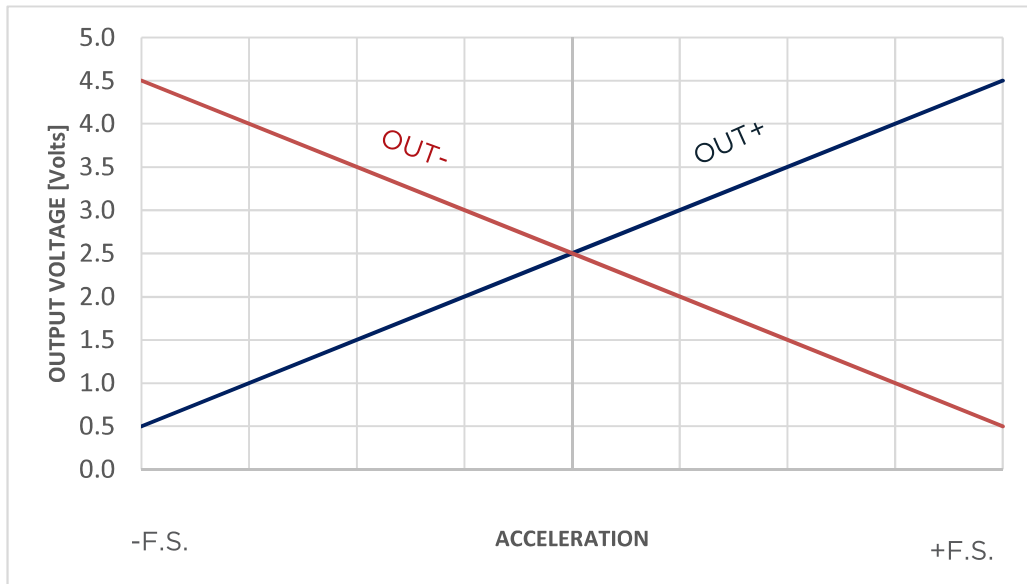
<sup>(1)</sup> Maximum temperature due to accelerometer cable - operating temperature up to ± 125°C possible with special cable upon request

<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	mV/g	Hz	µg/√Hz
±2	2000	0 - 400	5
±5	800	0 - 600	7
±10	400	0 - 1000	10
±25	160	0 - 1500	25
±50	80	0 - 2000	50
±100	40	0 - 2500	100
±200	20	0 - 3000	200
±400	10	0 - 4000	400

## ELECTRICAL RESPONSE



## ELECTRICAL CONNECTIONS

Signal	2 x 4 x 0.14 <sup>2</sup>
Supply <sup>+</sup>	White
Supply <sup>-</sup>	Brown
x-axis <sup>+</sup>	Yellow
x-axis <sup>-</sup>	Green
y-axis <sup>+</sup>	Pink
y-axis <sup>-</sup>	Grey
z-axis <sup>+</sup>	Red
z-axis <sup>-</sup>	Blue

## ORDERING INFORMATION

<b>IAC</b>	-	<b>HiRes</b>	-	<b>Ud</b>	-	<b>03</b>	-	<b>X g</b>	-	<b>XX.X m</b>
								<b>RANGE</b>		<b>Cable Length</b>
								2	± 2g	
								5	± 5g	
								10	± 10g	
								25	± 25g	
								50	± 50g	
								100	± 100g	
								200	± 200g	
								400	± 400g	