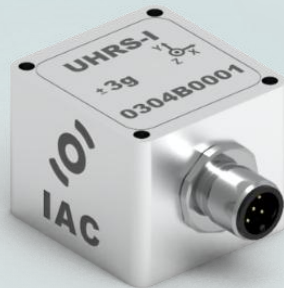
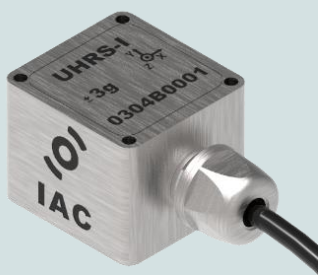


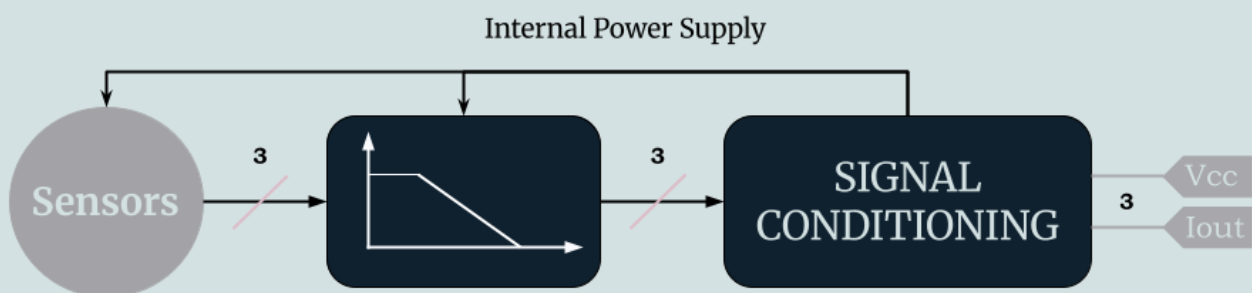
## ULTRA HIGH RESOLUTION ACCELEROMETER (4-20mA)



### PROPERTIES

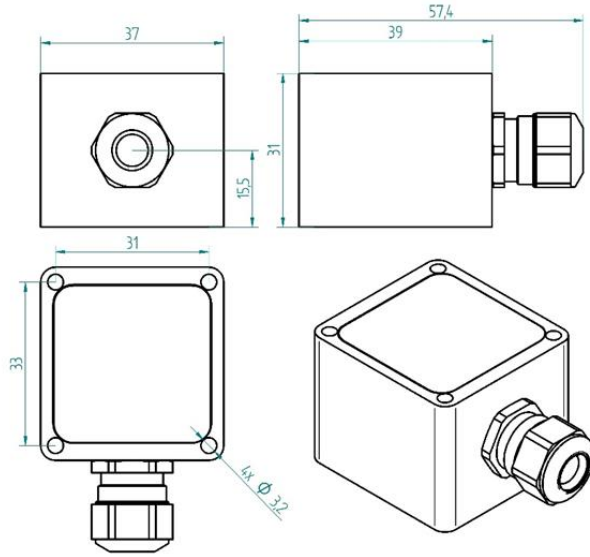
- 3-axes, very low noise, ultra-high resolution
- Suited for direct connection to standard control and measurement equipment, e.g. PLCs or panel meters
- Embedded 4-20mA signal conditioning
- Galvanically isolated
- Protected against reverse polarization
- Compact and rugged design
- Protection grade IP 67

### BLOCK DIAGRAM



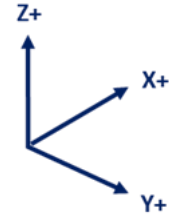
## DIMENSIONS – Cable Gland Model

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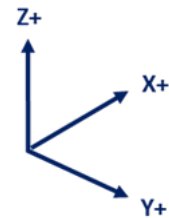
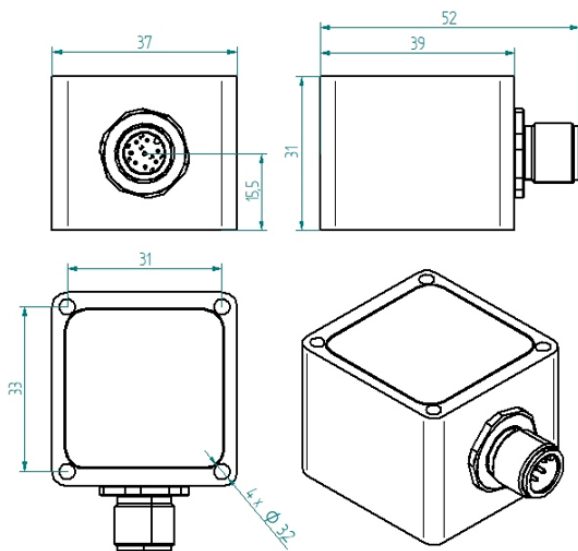
### NOTE

When mounted with sensing axis vertical all units will indicate 1g offset due to gravity



## DIMENSIONS – M12 Connector Model

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## MOUNTING ACCESSORIES

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See "IAC – Accelerometer Accessories data sheet"

## SPECIFICATIONS – All Models

OUTPUT / CHANNEL	Output Range	4-20mA
	Supply Voltage	10–30 VDC
	Lower frequency limit	0 Hz (DC)
	Non-linearity	± 0.5 % typ. - 1.5% max.
	Sensitivity Error	2%
	Transverse Sensitivity	2 % typ. - 3 % max.
	Offset	± 20 mg
	Destruction limit <sup>(1)</sup>	± 1000g
ENVIRONMENTAL CHARACTERISTICS	Temperature Range	Operating -40 to 85°C / -40 to 185°F
	Temperature coefficient of sensitivity	150 ppm/°C
	Temperature drift of zero point	± 0.5 mg/°C
	Protection grade	IP67
MECHANICAL DATA	Weight Without Cable (g)	<sup>(2)</sup> CG/203, CO/223 - <sup>(3)</sup> CG/117, CO/137
	Case Material	Stainless Steel or Aluminium
	Mounting	3.2 mm diameter holes (4x)

<sup>(1)</sup> Handle the component with caution: dropping the accelerometer on a hard surface can generate several thousand g of acceleration, potentially exceeding absolute maximum limits and damaging the product.

<sup>(2)</sup> Stainless Steel Casing Grade (e.g. for offshore/marine environment)

<sup>(3)</sup> Aluminium (MIL-A-8625 Type II coating)

## PERFORMANCES – By Model

Range - g	Sensitivity - mA/g	Freq. Response (-3dB) - Hz	Noise - µg/√Hz (Typical)
± 3	2.67	0 - 500	2.0
± 5	1.60	0 - 650	2.5

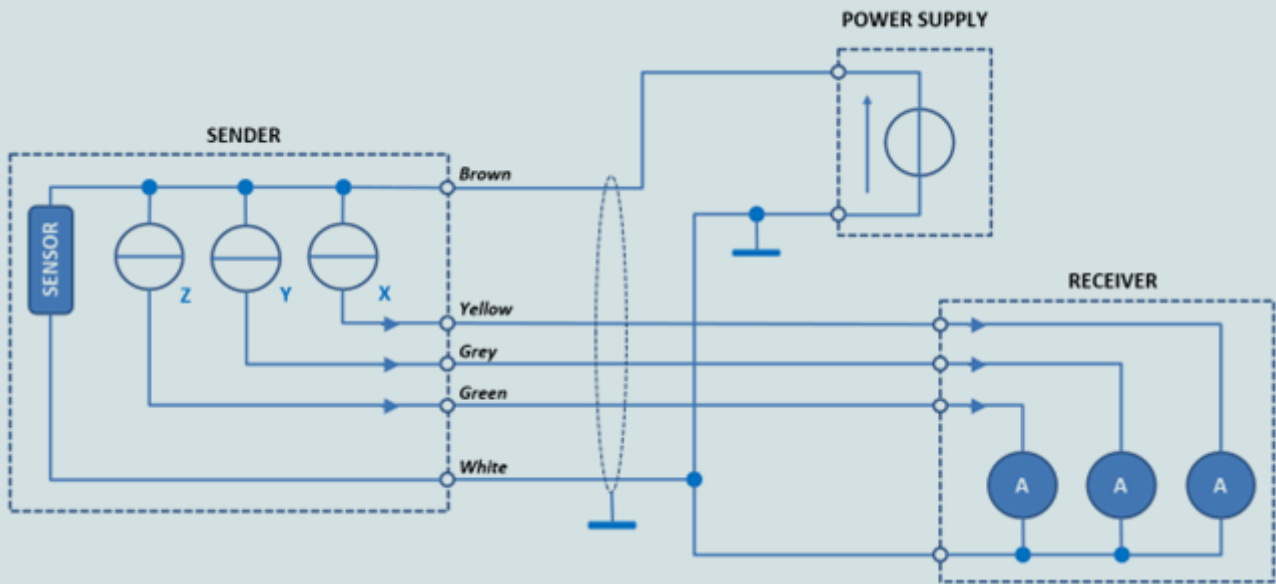
## ELECTRICAL CONNECTIONS – Cable Gland Model

Signal X sensing	Signal Y sensing	Signal Z sensing	5 x 0,25 <sup>2</sup>
Sensor supply + input	Sensor supply + input	Sensor supply + input	Brown
Sensor supply – input	Sensor supply – input	Sensor supply – input	White
X Axis Out			Yellow
	Y Axis Out		Grey
		Z Axis Out	Green

## ELECTRICAL CONNECTIONS – M12 Connector Model

I 03		1	OUT X	4-20mA current output
		2	OUT Y	4-20mA current output
		3	OUT Z	4-20mA current output
		4	+24 VDC	Sensor supply + input
		5	0 VDC	Sensor supply – input

## ELECTRICAL CONNECTIONS



## ORDERING INFORMATION

IAC - UHRS	-	I	-	03	-	XX	-	XX	-	Xg	-	XXXXHz	-	X	-	XX.X m
Cable Connection		Casing		Range	Low Pass Filter Frequencies		Low Pass Filter Orders		Cable Length							
CG	Cable Gland	AL	Aluminium	± 3g	0100	100Hz	1	1st order	Value in meter							
CO	M12	SS	Stainless Steel	± 5g	0250	250Hz	2	2nd order								
					0500		500Hz									

Specifications subject to change without notice. – Last updated: April 2026