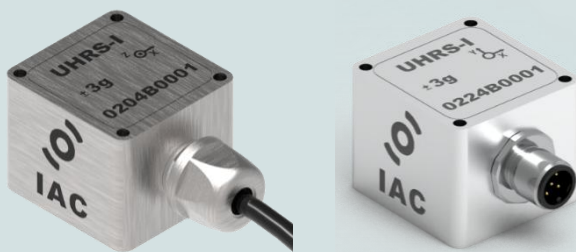


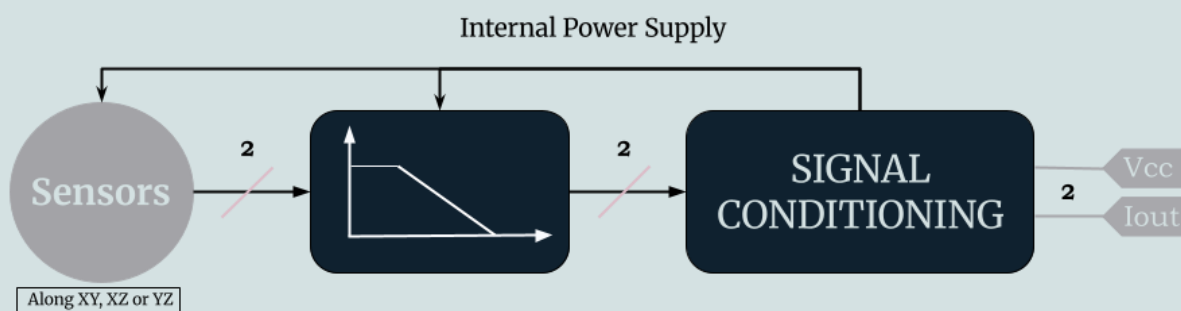
## ULTRA HIGH RESOLUTION ACCELEROMETER (4-20mA)



### PROPERTIES

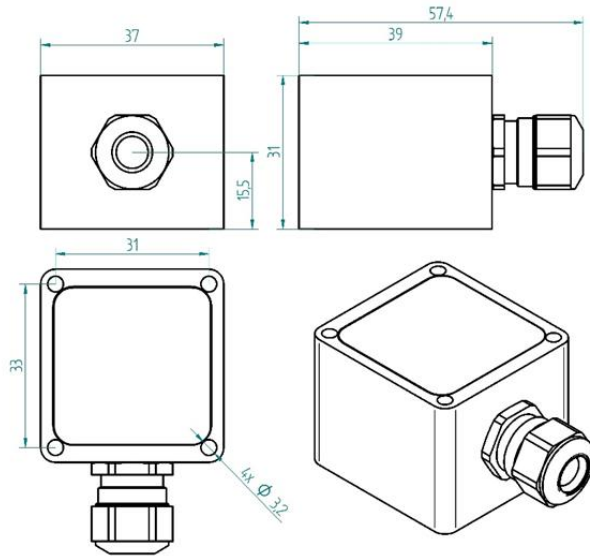
- 2-axes, very low noise, ultra-high resolution
- Suited for direct connection to standard control and measurement equipment, e.g. PLCs or panel meters
- Embedded 4-20mA signal conditioning
- Galvanically isolated
- Protected against reverse polarization
- Compact and rugged design
- Protection grade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

### BLOCK DIAGRAM



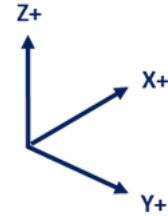
## DIMENSIONS – Cable Gland Model

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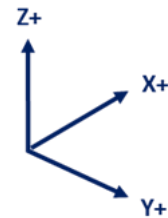
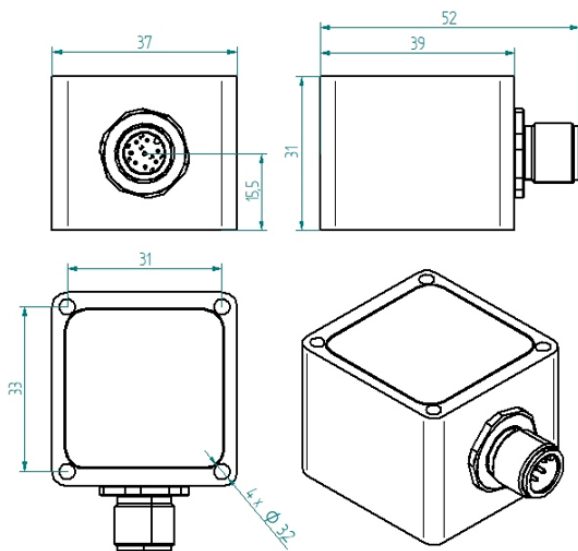
### NOTE

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/198, CO/218 - <sup>(3)</sup> CG/112, CO/132
	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 XY sensing	Signal XZ sensing	Signal YZ sensing	4 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	X Axis Out	Y Axis Out	Yellow
Y Axis Out	Z Axis Out	Z Axis Out	Green

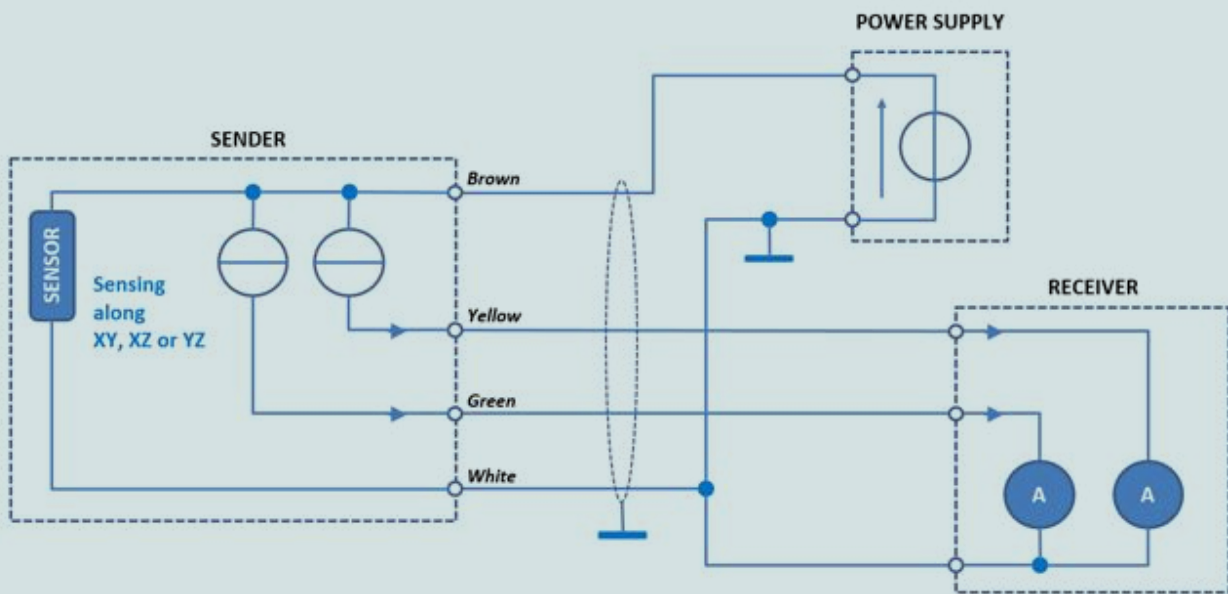
## ELECTRICAL CONNECTIONS – M12 Connector Model

I 02		1	OUT 1	4-20mA current output
		2	OUT 2	4-20mA current output
		3	NC	-
		4	+24 VDC	Sensor supply + input
		5	0 VDC	Sensor supply – input

Selected Axes:

X	OUT 1	X	OUT 1	Y	OUT 1
Y	OUT 2	Z	OUT 2	Z	OUT 2

## ELECTRICAL CONNECTIONS



## ORDERING INFORMATION

IAC - UHRS	I	02	AA	XX	XX	Xg	XXXXHz	X	XX.X m
	Sensing Axis	Cable Connection	Casing		Range	Low Pass Filter Frequencies		Low Pass Filter Orders	Cable Length
	XY	CG Cable Gland	AL Aluminium		±3g	0100 100Hz	1 1st order		Value in meter
	XZ	CO M12	SS Stainless Steel		±5g	0250 250Hz	2 2nd order		
	YZ					0500 500Hz			

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