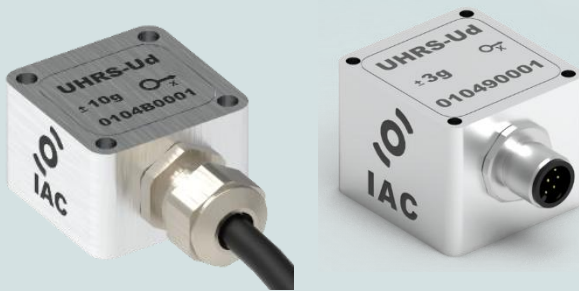


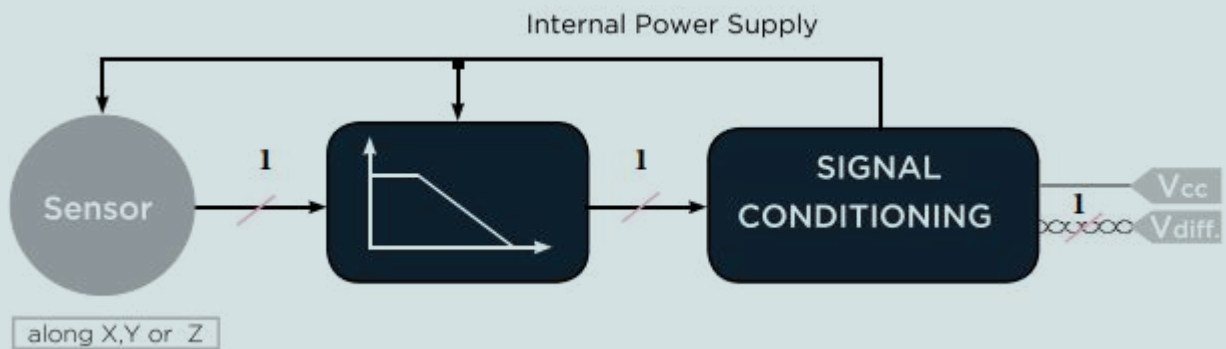
## ULTRA HIGH RESOLUTION ACCELEROMETER (+/- 4V)



### PROPERTIES

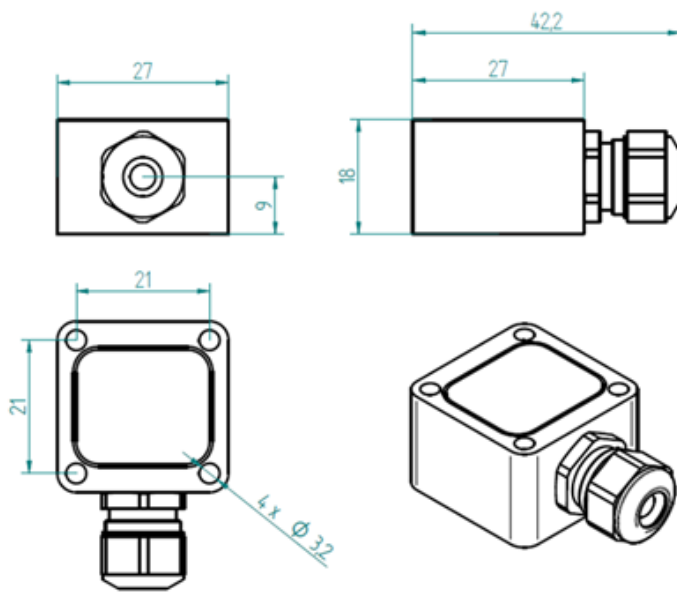
- 1-axis, very low noise accelerometer
- Amplified +/- 2.7V differential output
- Embedded signal conditioning
- Compact and rugged design
- Protection grade IP 67

### BLOCK DIAGRAM



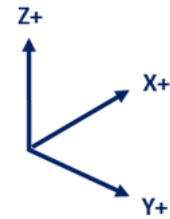
## DIMENSIONS – Cable Gland Model

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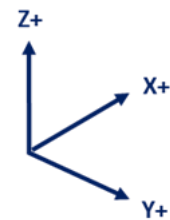
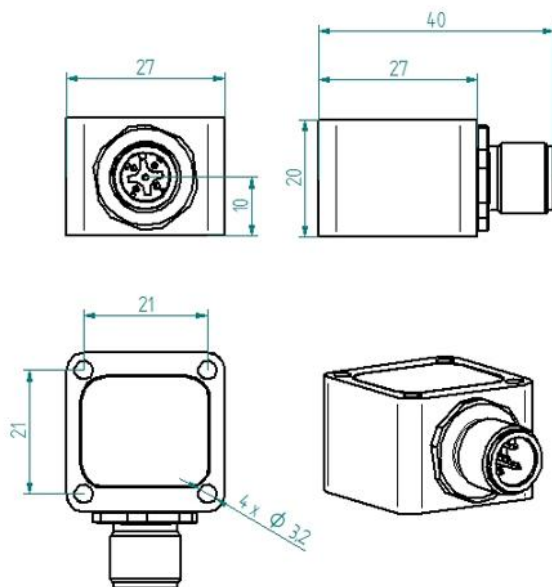
### NOTE

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	± 2.7V
	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/75, CO/121 - <sup>(3)</sup> CG/42, CO/87
	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 - mV/g	Freq. Response (-3dB) - Hz	Noise - µg/√Hz (Typical)
± 3	900	0 - 500	1.0
± 5	540	0 - 650	1.5

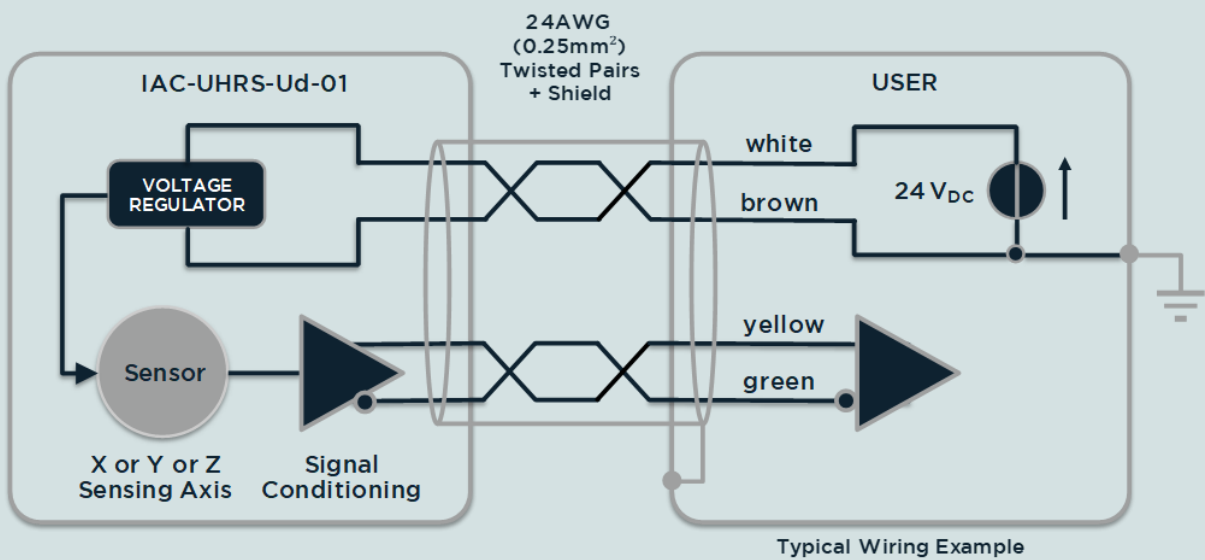
## ELECTRICAL CONNECTIONS – Cable Gland Model

Signal X sensing	Signal Y sensing	Signal Z sensing	2 x 2 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	Y Axis + Out	Z Axis + Out	Yellow
X Axis - Out	Y Axis - Out	Z Axis - Out	Green

## ELECTRICAL CONNECTIONS – M12 Connector Model

Ud 01		1	+24VDC	Sensor supply + input
		2	NC	-
		3	NC	-
		4	NC	-
		5	NC	-
		6	OUT -	- Voltage differential output
		7	OUT +	+ Voltage differential output
		8	0VDC	Sensor supply - input

## ELECTRICAL CONNECTIONS



## ORDERING INFORMATION

IAC - UHRS - Ud - 01 - A - XX - XX - Xg - XX.X m

Sensing Axis	Cable Connection		Casing		Range	Cable Length
X	CG	Cable Gland	AL	Aluminium	±3g	Value in meter
Y	CO	M12	SS	Stainless Steel	±5g	
Z						

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