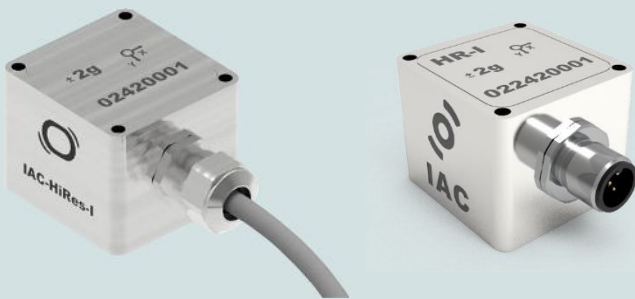


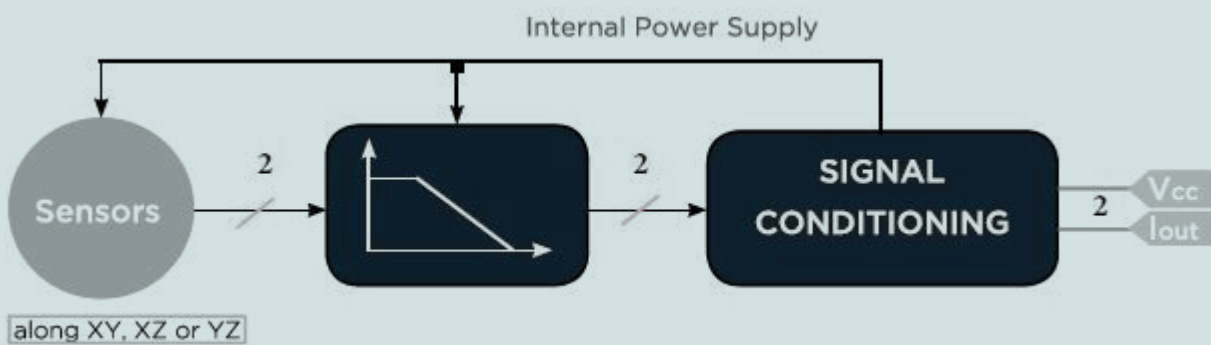
HIGH RESOLUTION ACCELEROMETER (4-20mA)



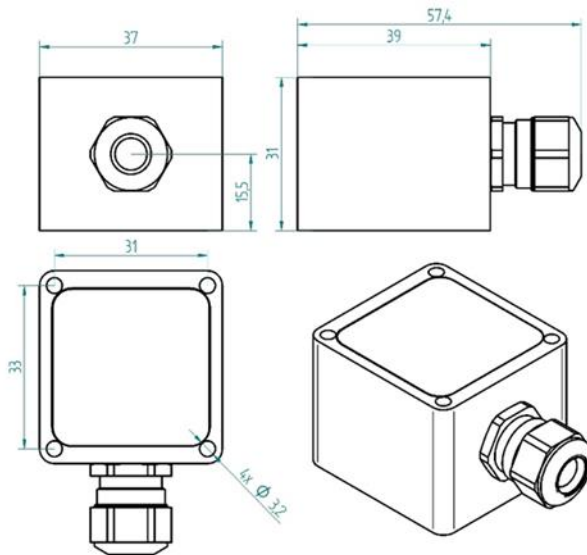
PROPERTIES

- 2-axes, 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

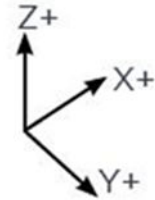


DIMENSIONS - Cable Gland Model

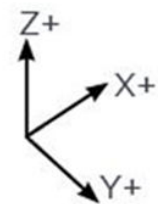
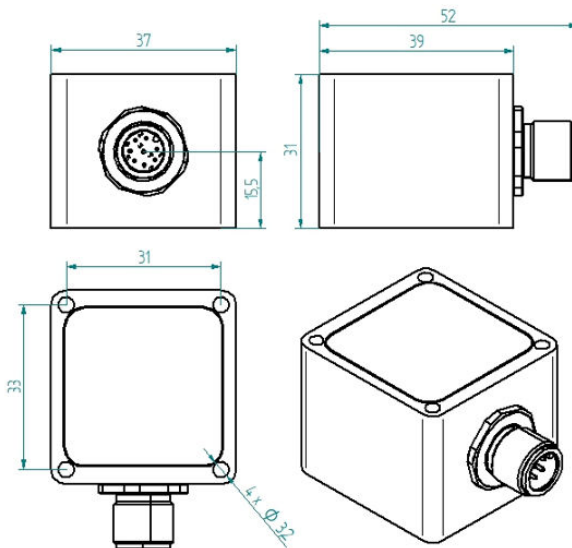


NOTE

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



DIMENSIONS - M12 Connector Model



MOUNTING ACCESSORIES

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 % 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				
ENVIRONMENTAL CHARACTERISTICS	Operating temperature Range	<table border="0"> <tr> <td style="text-align: center;">Operating</td> <td style="text-align: center;">Non-Operating</td> </tr> <tr> <td style="text-align: center;">-40 to 125°C / -40..185°F</td> <td style="text-align: center;"><-55 ; >125°C / <-67 ; >257°F</td> </tr> </table>	Operating	Non-Operating	-40 to 125°C / -40..185°F	<-55 ; >125°C / <-67 ; >257°F
	Operating	Non-Operating				
	-40 to 125°C / -40..185°F	<-55 ; >125°C / <-67 ; >257°F				
	Temperature coefficient of sensitivity	± 0.03 %/°C				
Temperature drift of zero point	± 0.02 % F.S./°C					
Protection grade	IP67					
MECHANICAL DATA	Weight Without Cable (g)	⁽¹⁾ CG/198, CO/218 - ⁽²⁾ CG/112, CO/132				
	Case Material	Stainless Steel or Aluminium				
	Mounting	3.2 mm diameter holes (4x)				

⁽¹⁾ Stainless Steel Casing AISI316 Grade (e.g. for offshore/marine environment)

⁽²⁾ Aluminium (MIL-A-8625 Type II coating)

PERFORMANCES - BY MODEL

Range - g	Sensitivity - $\mu\text{A/g}$	Freq. Response (-3dB) - Hz	Noise - $\mu\text{g}/\sqrt{\text{Hz}}$
+/- 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

ELECTRICAL CONNECTIONS - Cable Gland Model

Signal XY sensing	Signal XZ sensing	Signal YZ sensing	4 x 0,25 ²
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

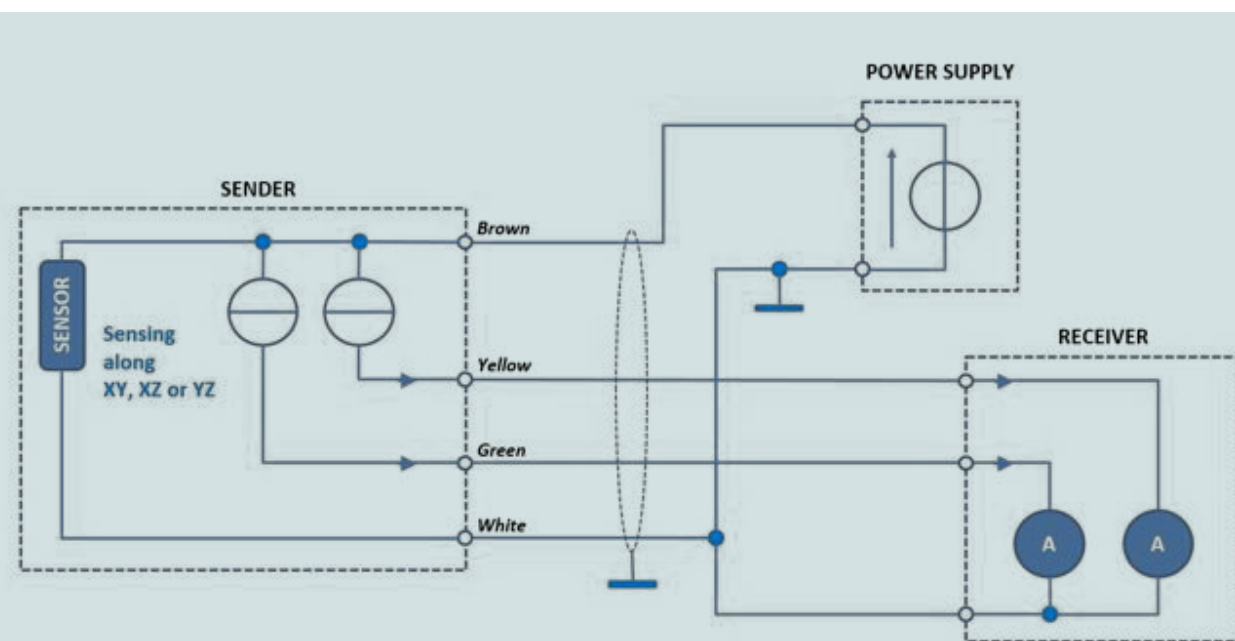
ELECTRICAL CONNECTIONS - M12 Connector Model

I 02		1	OUT 1	4-20mA current output
		2	OUT 2	4-20mA current output
		3	NC	-
		4	+24VDC	Sensor supply + input
		5	0VDC	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 - HiRes - 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	± 2g	0100 100Hz	1 1st order	Value in meter
XZ	CO M12	SS Stainless Steel	± 5g	0250 250Hz	2 2nd order	
YZ			± 10g	0500 500Hz		
			± 25g	1000 1000Hz		
			± 50g			
			± 100g			
			± 200g			
			± 400g			