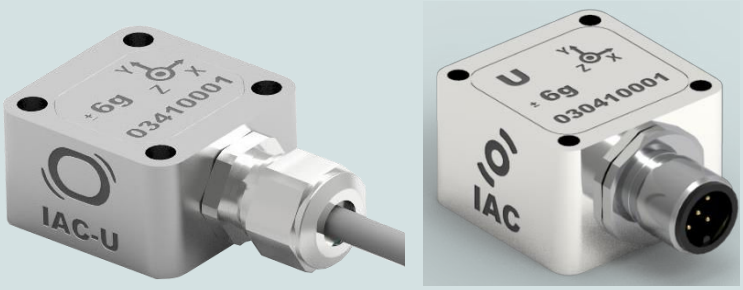
RECOVIB

IAC-U-03

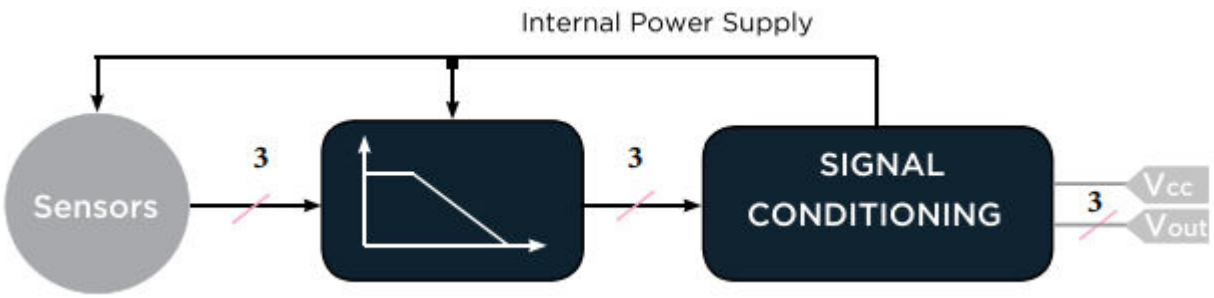
ROBUST ACCELEROMETER



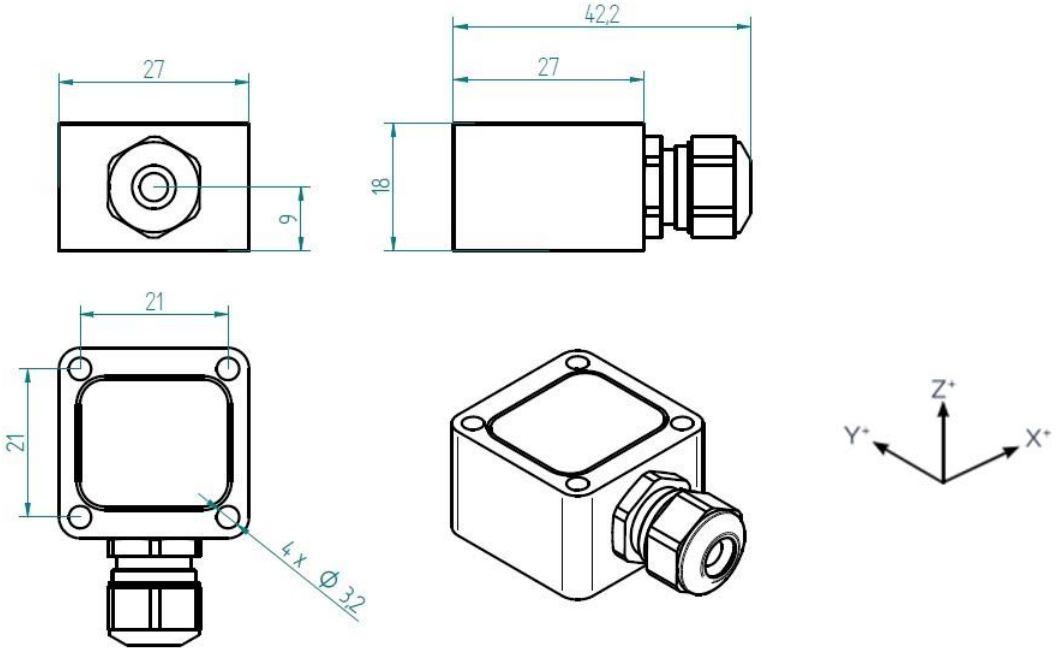
PROPERTIES

- 3 axes
- Suited for direct connection to standard control and measurement equipment, e.g., PLCs or panel meters.
- Embedded 0..3V signal conditioning
- Galvanically Isolated
- Protected against false polarization
- Compact and rugged design
- Protection grade IP67

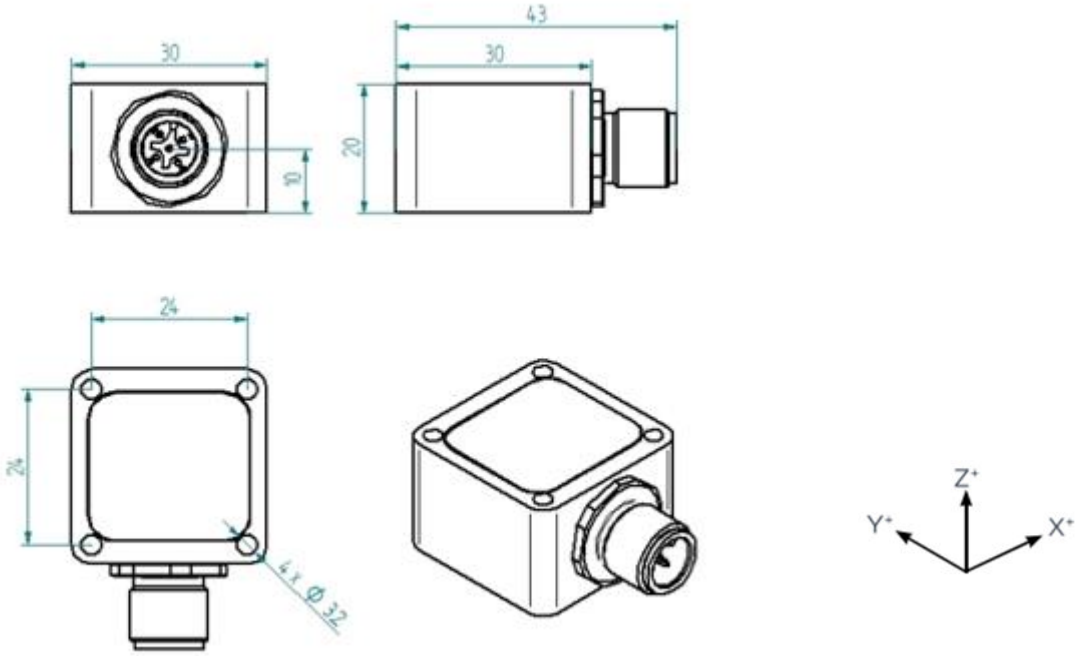
BLOCK DIAGRAM



DIMENSIONS – Cable Gland Model



DIMENSIONS – M12 Connector Model



MOUNTING ACCESSORIES

See “IAC – Accelerometer Accessories data sheet”

SPECIFICATIONS – ALL MODELS

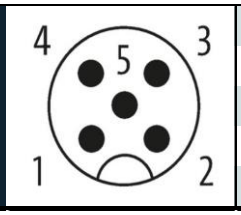
OUTPUT/CHANNEL	Output Range	0-3.0 V
	Supply Voltage	12-30 V
	Measuring Range	± 2g or ± 6 g
	Sensitivity	0.6 V/g (± 2g range) or 0.2 V/g (± 6g range)
	Lower frequency limit	0 Hz (DC)
	Upper -3 dB frequency limit	100, 250, 500 or 1000 Hz (1st of 2nd order)
	Non-linearity	± 0.5 % F.S.
	Residual noise	< 50 µg/√Hz
	Transverse sensitivity	< 5 %
	Destruction limit	± 5000g
ENVIRONMENTAL CHARACTERISTICS	Temperature range	Operating: -20..85°C / -4..185°F; Non-Operating: <-40 ; >85°C / <-40; >185°F
	Temperature coefficient of sensitivity	± 0.01 %/°C
	Temperature drift of zero point	± 0.5 mg/°C
	Protection grade	IP67
MECHANICAL DATA	Weight Without Cable (g)	(1) CG/80, CO/125 - (2) CG/46, CO/84
	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)

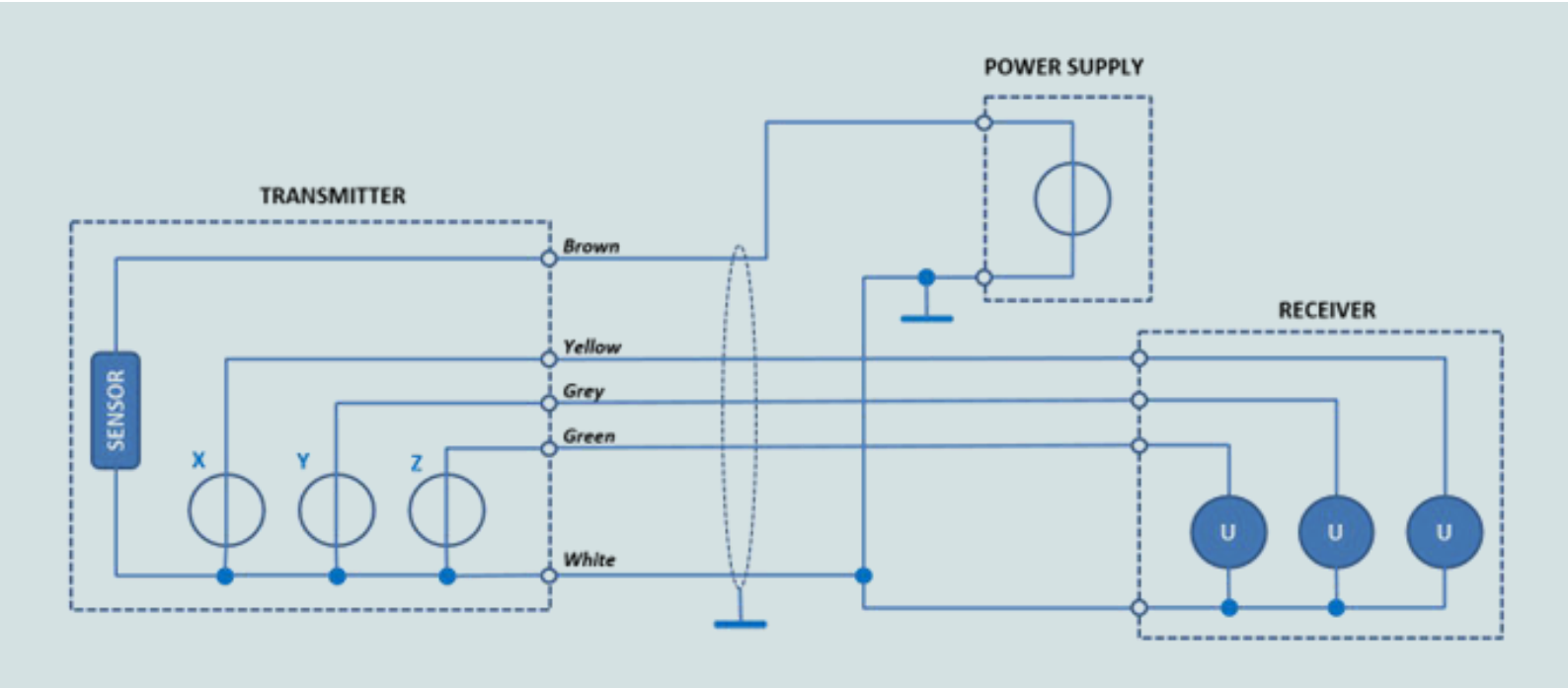
ELECTRICAL CONNECTIONS – Cable Gland Model

Signal X sensing	Signal Y sensing	Signal Z sensing	5 x 0,25²
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

U 03		1	OUT X	Voltage unipolar output
		2	OUT Y	Voltage unipolar output
		3	OUT Z	Voltage unipolar output
		4	+24VDC	Sensor supply + input
		5	0VDC	Sensor supply - input

ELECTRICAL CONNECTIONS



ORDERING INFORMATION

IAC	-	U	-	03	-	XX	-	XX	-	Xg	-	XXXXHz	-	X	-	XX.X m

Cable Connection	
CG	Cable Gland
CO	M12

Casing	
AL	Aluminium
SS	Stainless Steel

Range
±2g
±6g

Low Pass Filter Frequencies	
0100	100Hz
0250	250Hz
0500	500Hz
1000	1000Hz

Low Pass Filter Orders	
1	1st order
2	2nd order

Cable Length
Value in meter

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