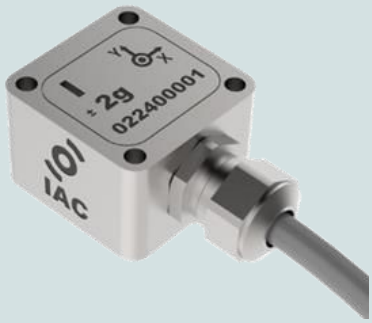
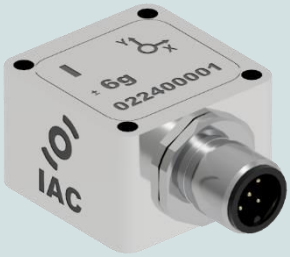
RECOVIB

IAC-I-02

ROBUST ACCELEROMETER (4-20 mA)

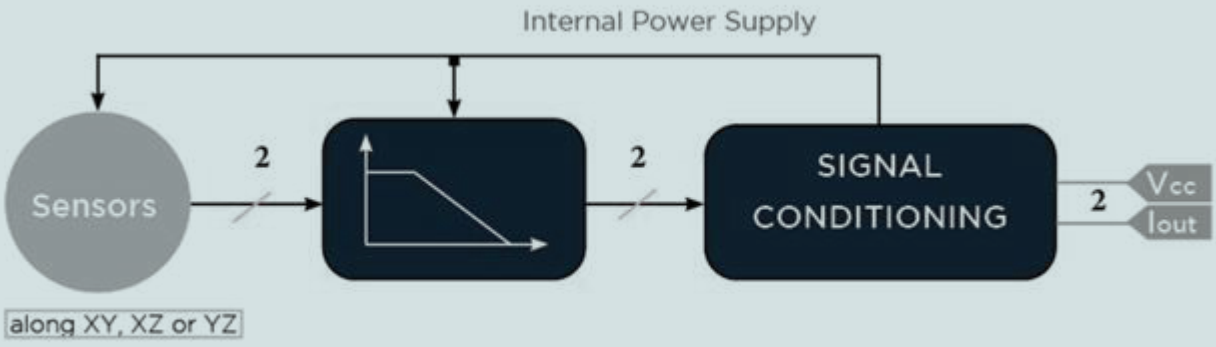




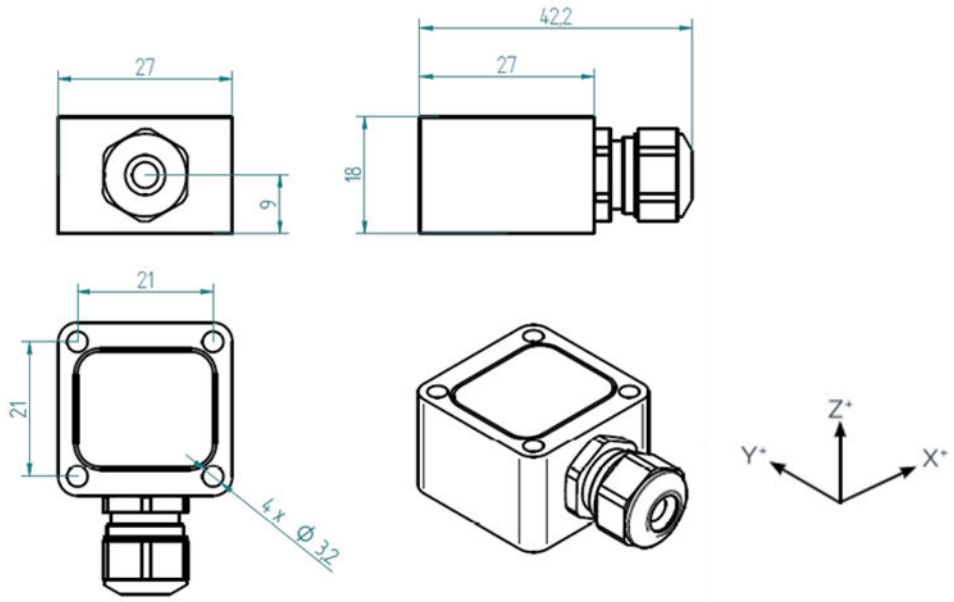
PROPERTIES

- 2 axes
- 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

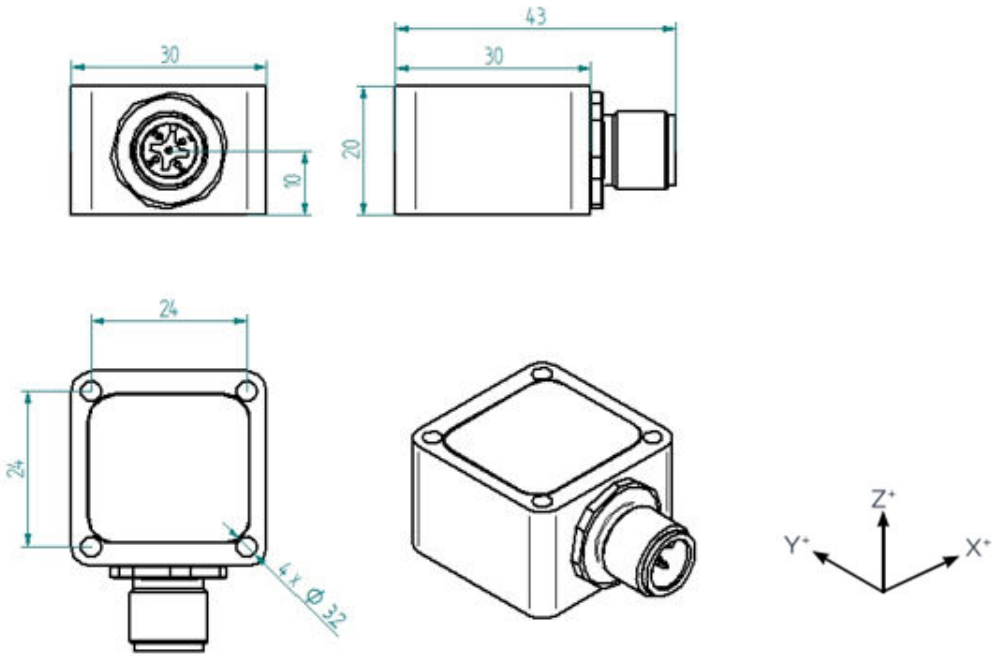
BLOCK DIAGRAM



DIMENSIONS – Cable Gland Model



DIMENSIONS – M12 Connector Model



MOUNTING ACCESSORIES

See " IAC – Accelerometer Accessories data sheet "

SPECIFICATIONS – ALL MODELS

OUTPUT/CHANNEL	Output Range	4-20mA
	Supply Voltage	12-30 VDC
	Measuring Range	± 2g or ± 6 g
	Sensitivity	3.20mA/g (±2g range) or 1.07mA/g (±6g range)
	Lower frequency limit	0 Hz (DC)
	Upper 3 dB freguency limit	100, 250, 500 or 1000 Hz (1st and 2nd order)
	Non-linearity	± 0.5 % F.S.
	Residual noise	< 50 µg/√Hz
	Transverse Sensitivity	< 5%
	Destruction limit	± 5000g
ENVIRONMENTAL CHARACTERISTICS	Operationg 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	± 0.05 mg/°C
	Protection grade	IP67
MECHANICAL DATA	Weight Without Cable (g)	(1) CG/78, CO/121 - (2) CG/44, CO/81
	Case Material	Stainless Steel or Aluminium
	Mounting	3.2 mm diameter holes (4x)

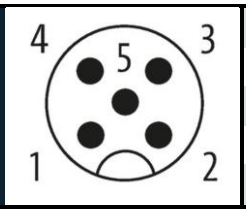
(1) Stainless Steel Casing AISI316 Grade (e.g. for offshore/marine environment)
(2) Aluminum (MIL-A-8625 Type II coating)

ELECTRICAL CONNECTIONS - Cable Gland Model

Signal XY sensing	Signal XZ sensing	Signal YZ sensing	4 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	X Axis Out	Y Axis Out	Yellow
Y Axis Out	Z Axis Out	Z Axis Out	Green

ELECTRICAL CONNECTIONS - M12 Connector Model

I 02

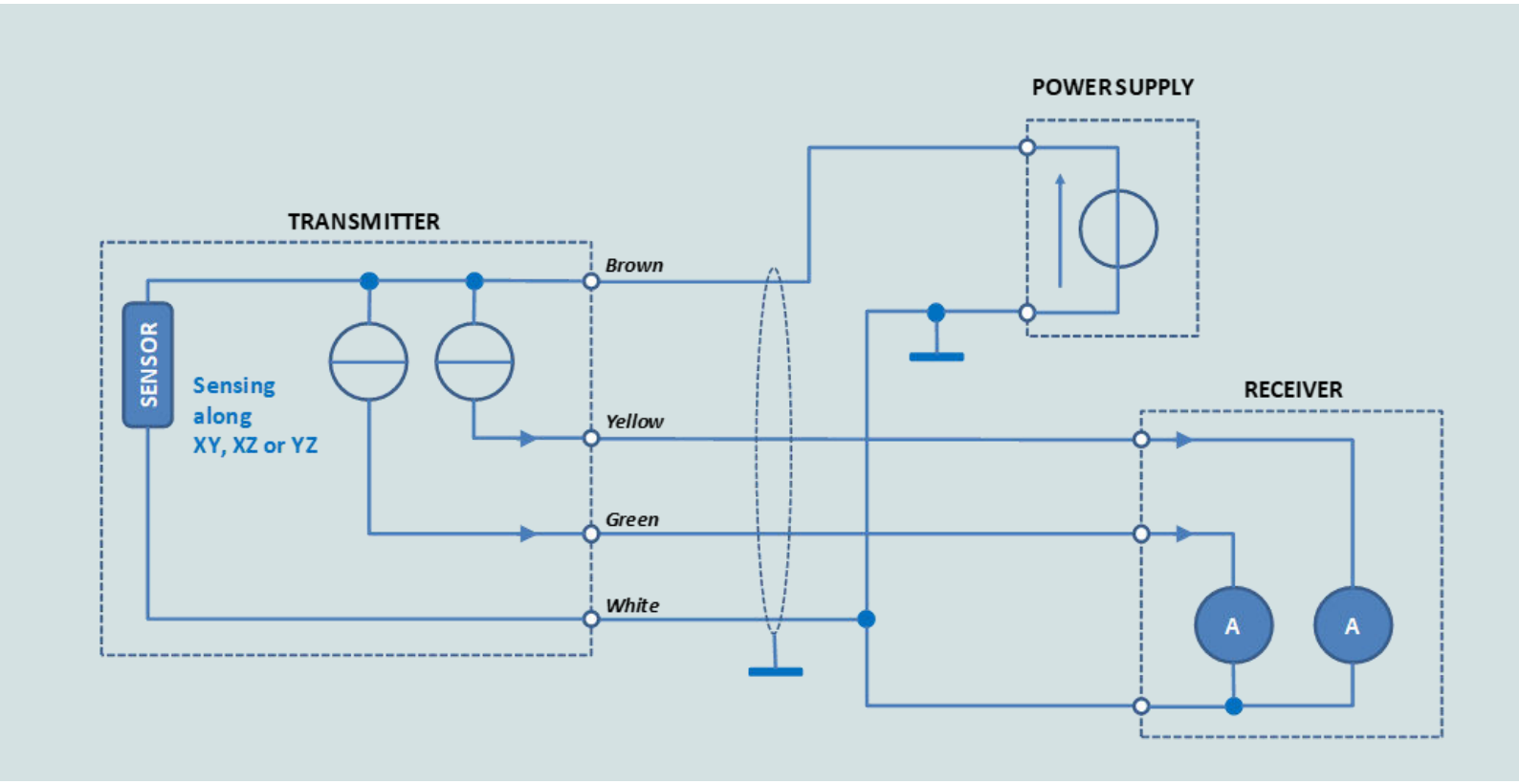


1	OUT 1	4-20mA current output
2	OUT 2	4-20mA current output
3	NC	-
4	+24VDC	Sensor supply + input
5	0VDC	Sensor supply - input

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	-	I	-	02	-	AA	-	XX	-	XX	-	Xg	-	XXXXHz	-	X	-	XX.X m

Sensing Axis

XY
XZ
YZ

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