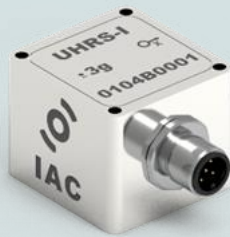
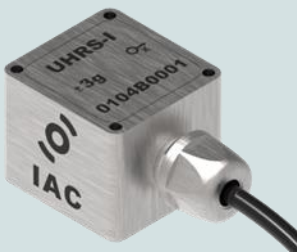


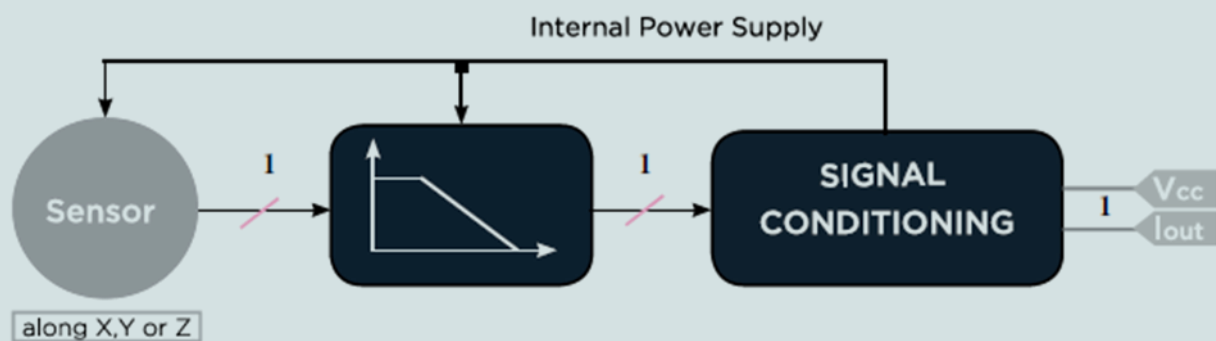
SEISMIC ACCELEROMETER (4-20mA)



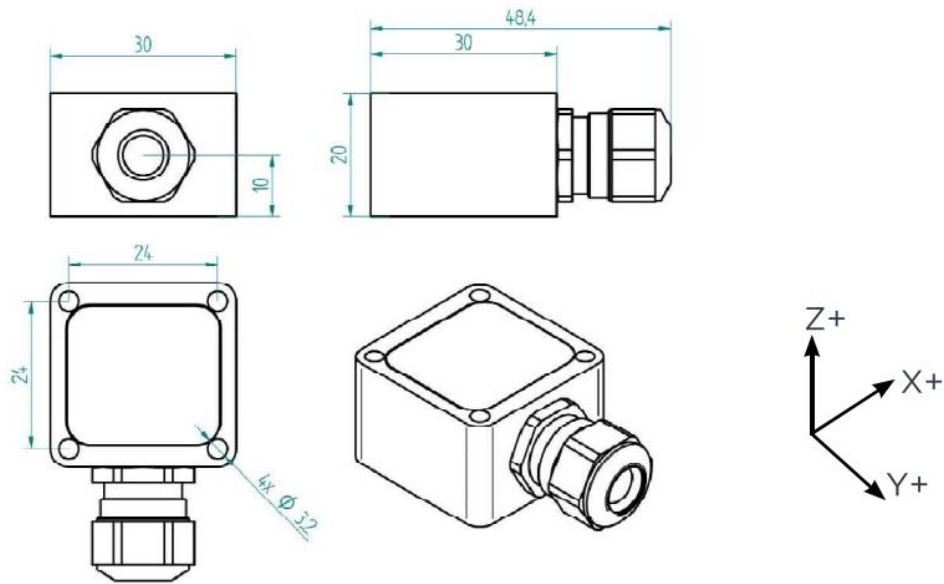
PROPERTIES

- 1-axis
- Background noise as low as $1\mu\text{g}/\sqrt{\text{Hz}}$
- Embedded 4..20mA signal conditioning
- Self-powered Current Loop
- Compact and rugged design
- IP67 ingress protection grade

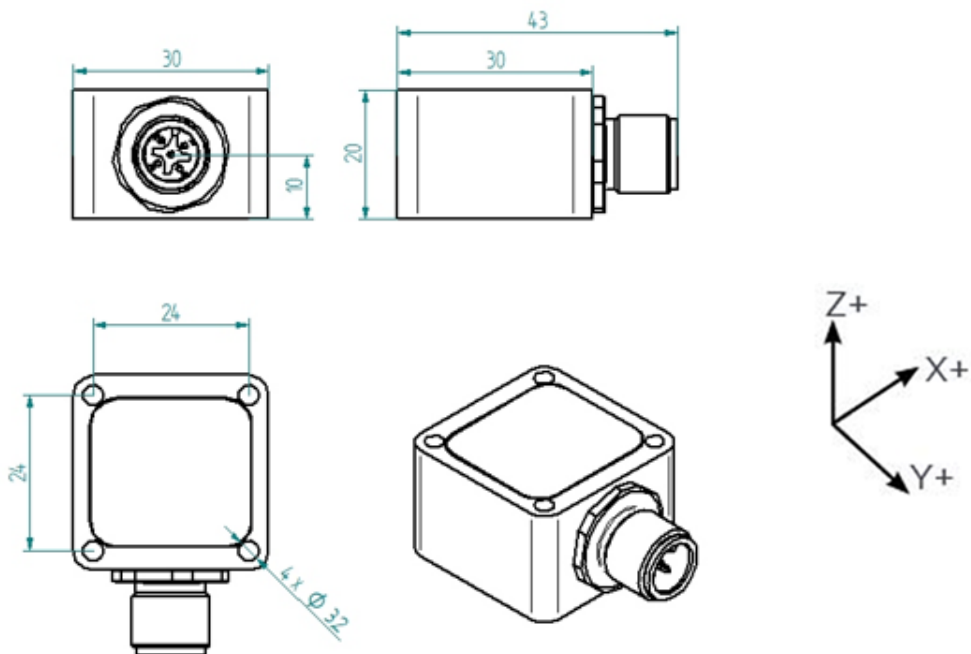
BLOCK DIAGRAM



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 | 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 | 1000g |
| ENVIRONMENTAL CHARACTERISTICS | Temperature Range | Operating: -20..85°C / -4..185°F Non-Operating: <-40 ; >85°C / <-40; >185°F |
| | Drift of sensitivity | 150 ppm/°C |
| | Drift of zero point | ± 0.5 mg/°C |
| | Ingress protection grade | IP67 |
| MECHANICAL DATA | Weight Without Cable (g) | ⁽¹⁾ CG/97, CO/213 - ⁽²⁾ CG/57, CO/127 |
| | 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)

PERFORMANCES - BY MODEL

| Range - g | Sensitivity - mA/g | Freq. Response (-3dB) - Hz | Noise - µg/√Hz |
|-----------|--------------------|----------------------------|----------------|
| +/- 3 | 2,67 | 0 - 500 | 1,0 |
| +/- 5 | 1,60 | 0 - 650 | 1,5 |

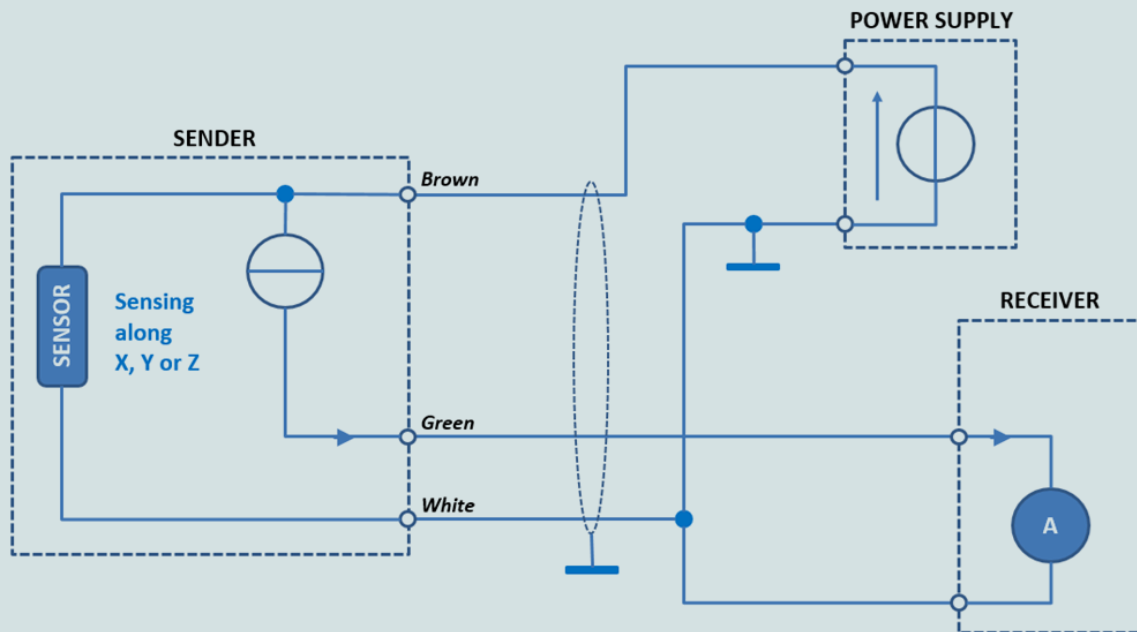
ELECTRICAL CONNECTIONS - Cable Gland Model

| Signal X sensing | Signal Y sensing | Signal Z sensing | 3 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 | | | Green |
| | Y Axis Out | | Green |
| | | Z Axis Out | Green |

ELECTRICAL CONNECTIONS - M12 Connector Model

| | | | | |
|-------------|--|---|--------|-----------------------|
| I 01 | | 1 | OUT 1 | 4-20mA current output |
| | | 2 | NC | - |
| | | 3 | NC | - |
| | | 4 | +24VDC | Sensor supply + input |
| | | 5 | 0VDC | Sensor supply - input |

ELECTRICAL CONNECTIONS



ORDERING INFORMATION

IAC - UHRS - I - 01 - A - XX - XX - Xg - XXXXHz - X - XX.X m

| Sensing Axis | Cable Connection | | Casing | | Range | Low Pass Filter Frequencies | | Low Pass Filter Orders | | Cable Length |
|--------------|------------------|-------------|--------|-----------------|-------|-----------------------------|-------|------------------------|-----------|----------------|
| X | CG | Cable Gland | AL | Aluminium | ± 3g | 0100 | 100Hz | 1 | 1st order | Value in meter |
| Y | CO | M12 | SS | Stainless Steel | ± 5g | 0250 | 250Hz | 2 | 2nd order | |
| Z | | | | | | 0500 | 500Hz | | | |