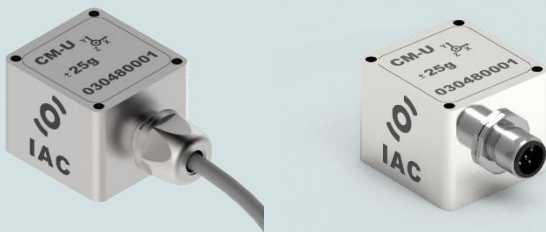


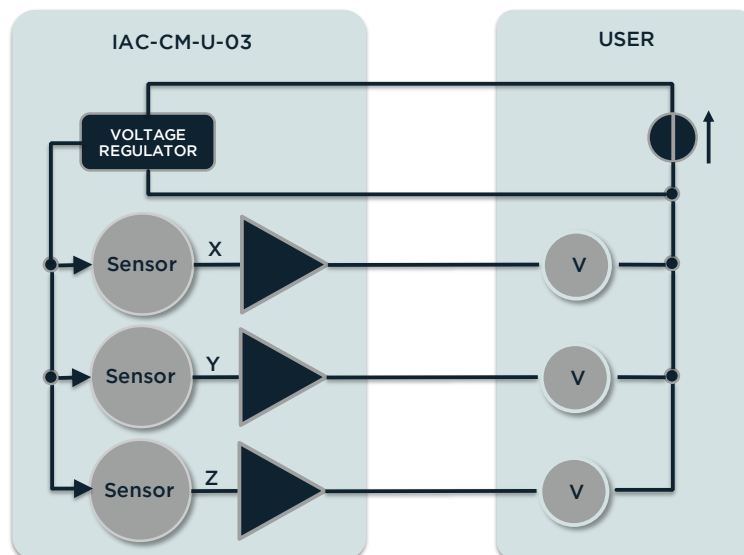
ACCELEROMETER FOR CONDITION MONITORING



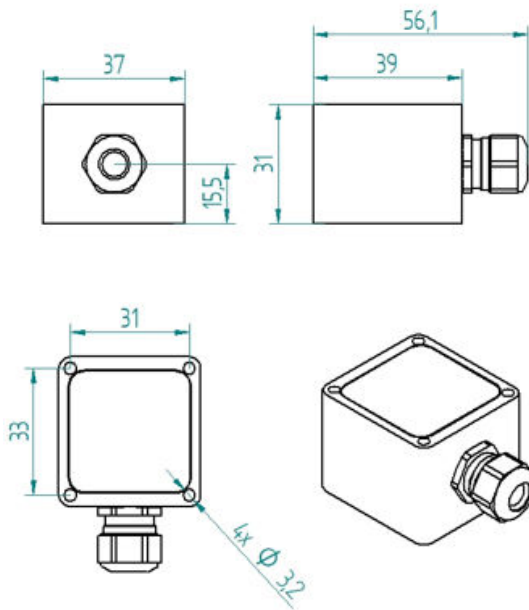
PROPERTIES

- 3-axes
- Wide bandwidth (0 - 24kHz)
- Embedded 0 - 5V signal conditioning.
- Self-powered current loop
- Galvanically isolated
- Protected against false polarization.
- Compact and rugged design
- IP67 ingress protection grade

BLOCK DIAGRAM

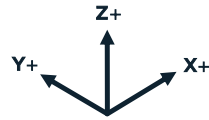


DIMENSIONS - Cable Gland Model

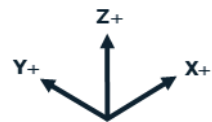
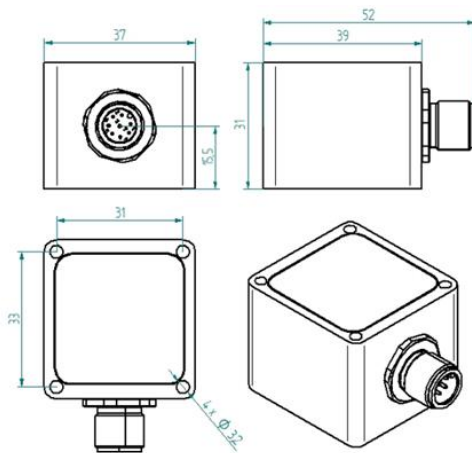


NOTE

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 | 0-5V | |
| | Supply Voltage | 12-30V | |
| | Bandwidth (-3dB) | 0-24kHz | |
| | Non-linearity | 0.5% F.S. typ. - 1.5% F.S. max. | |
| | Sensitivity Error | 2% | |
| | Transverse Sensitivity | 2% typ. - 5% max. | |
| | Offset dispersion | ±1g typ. - ±2g max. | |
| | Destruction limit | 1000g | |
| ENVIRONMENTAL CHARACTERISTICS | Temperature Range | Operating -40 to 125°C / -40..185°F | Non-Operating <-55 ; >125°C / <-67 ; >257°F |
| | Sensitivity drift | ±500ppm/°C | |
| | Offset drift | ±50mg/°C | |
| | Ingress protection grade | IP67 | |
| MECHANICAL DATA | Weight Without Cable (g) | ⁽¹⁾ CG/75, CO/102 - ⁽²⁾ CG/42, CO/68 | |
| | Case Material ⁽¹⁾ | Stainless Steel or Aluminium | |
| | Mounting | 3.2mm 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 - mV/g | Freq. Response (-3dB) - kHz | Noise - µg/√Hz |
|-----------|--------------------|-----------------------------|----------------|
| +/- 25 | 80 | 0 - 10 | 40 |
| +/- 50 | 40 | 0 - 10 | 40 |
| +/- 100 | 20 | 0 - 10 | 45 |
| +/- 200 | 10 | 0 - 15 | 70 |
| +/- 500 | 4 | 0 - 24 | 150 |

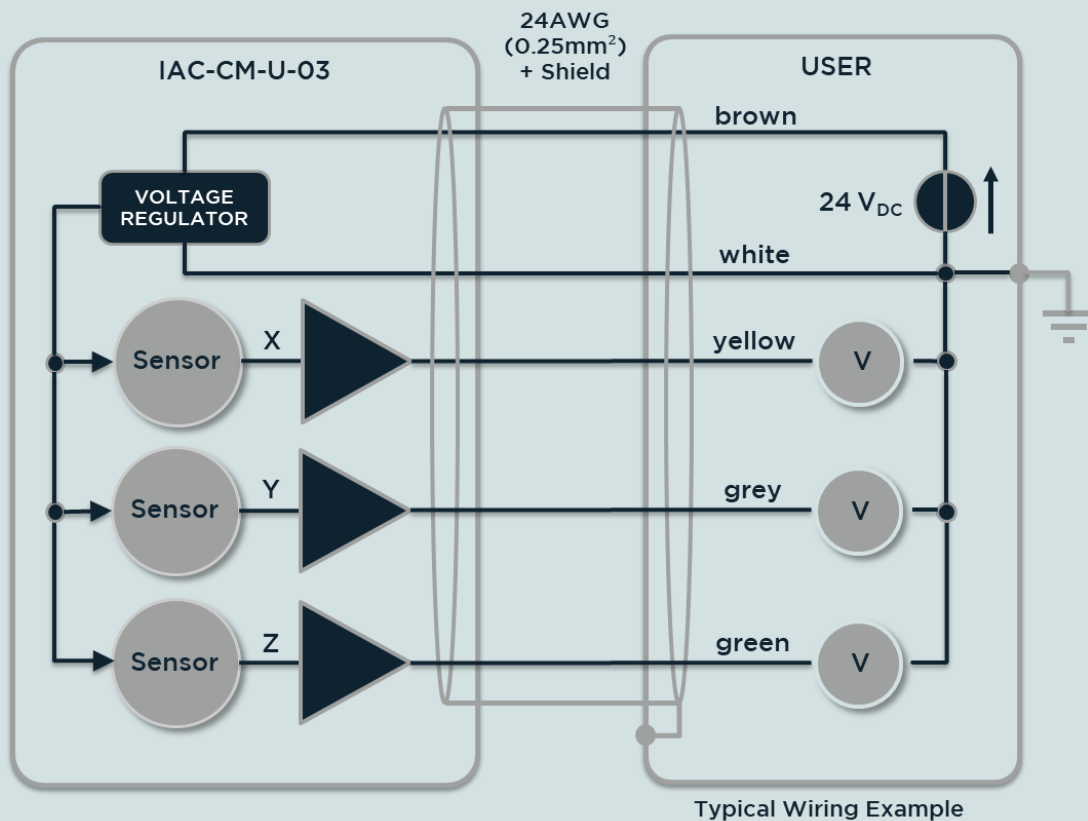
ELECTRICAL CONNECTIONS - Cable Gland Model

| Signal X sensing | Signal Y sensing | Signal Z sensing | 5 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 | | | 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 - CM - U - 03 - XX - Xg - XX - XX.X m

| | | | | | |
|------------------|-------------|--------|--------|-----------------|--------------|
| Cable Connection | | Range | Casing | | Cable Length |
| CG | Cable Gland | | AL | Aluminium | |
| CO | M12 | | SS | Stainless Steel | |
| | | | ± 25g | Value in meter | |
| | | | ± 50g | | |
| | | ± 100g | | | |
| | | ± 200g | | | |
| | | ± 500g | | | |