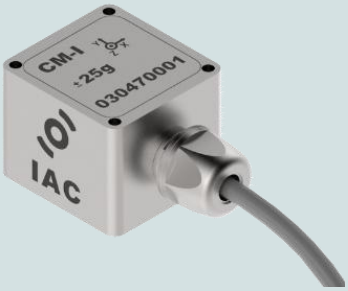
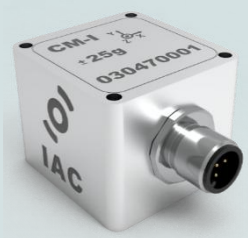
RECOVIB

IAC-CM-I-03

ACCELEROMETER FOR CONDITION MONITORING

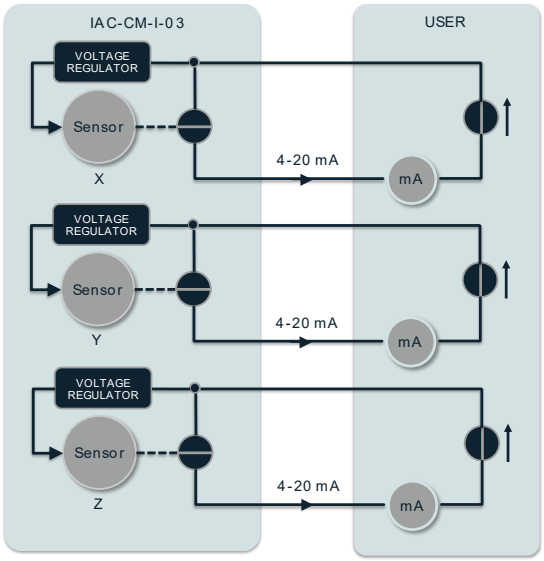




PROPERTIES

- 3-axes
- Wide bandwidth (up to 24kHz)
- Embedded 4 – 20 mA signal conditioning
- Self-powered current loop
- Galvanically isolated
- Protected against false polarization
- Compact and rugged design
- IP 67 ingress protection grade

BLOCK DIAGRAM

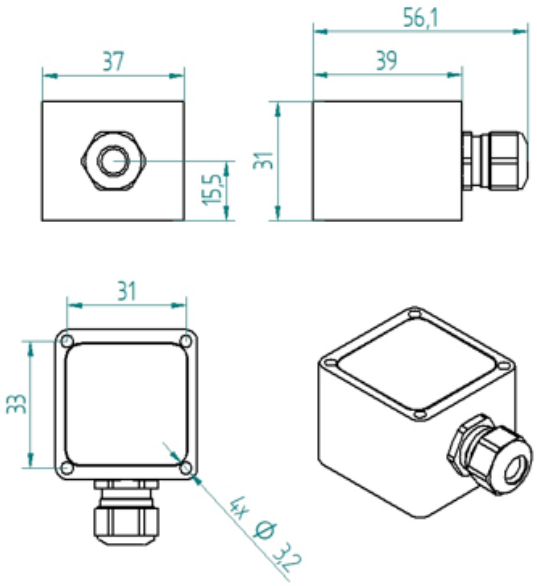


MICROMEGA
WÖLFEL GROUP

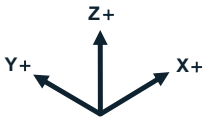
Rue du Trou du Sart 10
B-5380 Fernelmont | Belgium
EU ID.:BE0466034916

Tel. +32(0)81248100 | Fax. +32(0)81248101
info@micromega-dynamics.com
www.micromega-dynamics.com

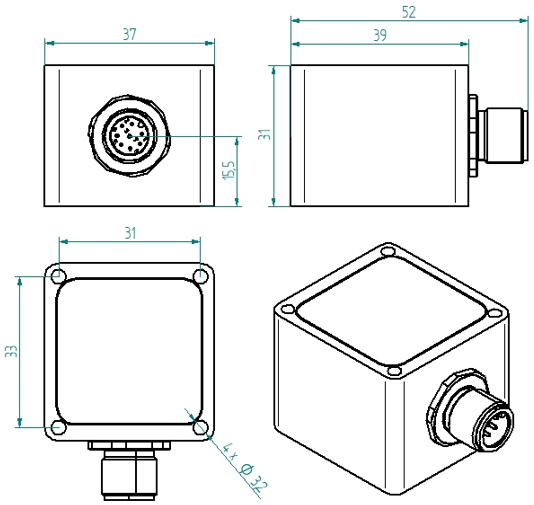
DIMENSIONS – Cable Gland Model



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



DIMENSIONS – M12 Connector Model



MOUNTING ACCESSORIES

See “IAC – Accelerometer Accessories data sheet”

MICROMEGA
WÖLFEL GROUP
Rue du Trou du Sart 10
B-5380 Fernelmont | Belgium
EU ID.:BE0466034916
Tel. +32(0)81248100 | Fax. +32(0)81248101
info@micromega-dynamics.com
www.micromega-dynamics.com

SPECIFICATIONS – All Models

OUTPUT/CHANNEL	Output Range	4-20mA
	Supply Voltage	12-30V
	Non-linearity	0.5% F.S. typ. – 1.5% F.S. max.
	Sensitivity Error	2% Typ. – 5% max.
	Transverse Sensitivity	2% typ. – 5% max.
	Offset dispersion	±1g typ. - ±2g max.
	Destruction limit	1000g
ENVIRONMENTAL CHARACTERISTICS	Temperature Range	Operating -40 to 85°C / -40 to 185°F
	Sensitivity drift	±500ppm/°C
	Offset drift	±50mg/°C
	Ingress protection grade	IP67
MECHANICAL DATA	Weight Without Cable (g)	(1) CG/203, CO/223 - (2) CG/117, CO/137
	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

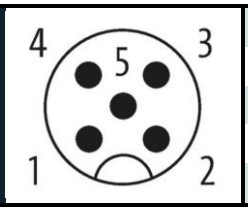
Range (g)	Sensitivity (mA/g)	Freq. Response (-3dB) - kHz	Noise (µg/√Hz)
+/- 25	0,257	0 - 10	40
+/- 50	0,128	0 - 10	40
+/- 100	0,064	0 - 10	45
+/- 200	0,032	0 - 15	70
+/- 500	0,0128	0 - 24	150

ELECTRICAL CONNECTIONS – Cable Gland Model

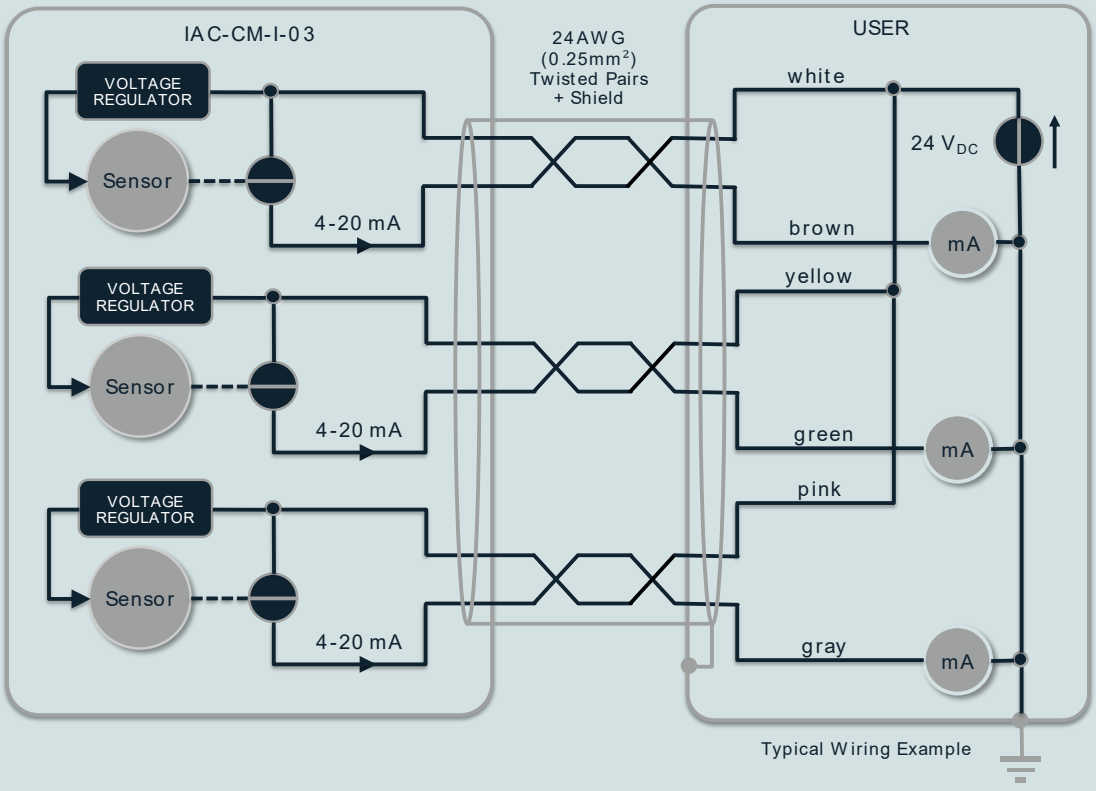
Signal X sensing	Signal Y sensing	Signal Z sensing	3 x 2 x $0,25^2$
Sensor supply + input			White
X Axis Out			Brown
	Sensor supply + input		Yellow
	Y Axis Out		Green
		Sensor supply + input	Pink
		Z Axis Out	Grey

MICROMEGA WÖLFEL GROUP
Rue du Trou du Sart 10
B-5380 Fernelmont | Belgium
EU ID.:BE0466034916
Tel. +32(0)81248100 | Fax. +32(0)81248101
info@micromega-dynamics.com
www.micromega-dynamics.com

ELECTRICAL CONNECTIONS – M12 Connector Model

I 03		1	OUT X	4-20mA current output
		2	OUT Y	4-20mA current output
		3	OUT Z	4-20mA current output
		4	+24VDC	Sensor supply + input
		5	NC	-

ELECTRICAL CONNECTIONS



ORDERING INFORMATION

IAC - CM	-	I	-	03	-	XX	-	Xg	-	XX	-	XX.X m

Cable Connection	
CG	Cable Gland
CO	M12

Range
± 25g
± 50g
± 100g
± 200g
± 500g

Casing	
AL	Aluminium
SS	Stainless Steel

Cable Length
Value in meter

MICROMEGA WÖLFEL GROUP
Rue du Trou du Sart 10
B-5380 Fernelmont | Belgium
EU ID.:BE0466034916
Tel. +32(0)81248100 | Fax. +32(0)81248101
info@micromega-dynamics.com
www.micromega-dynamics.com