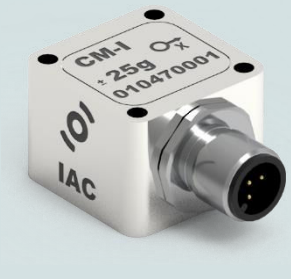
RECOVIB

IAC-CM-I-01

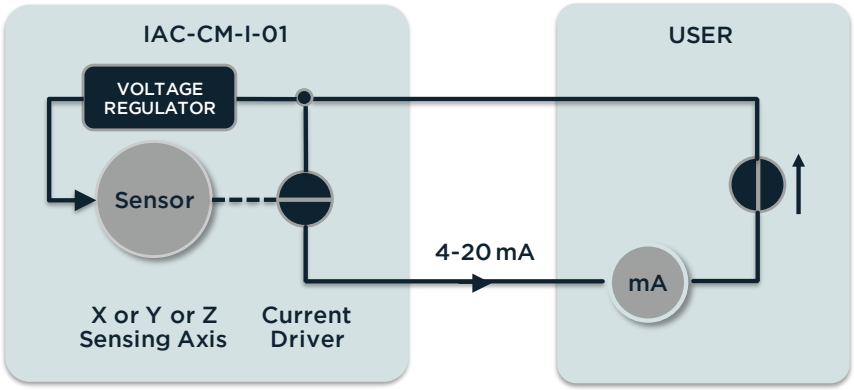
ACCELEROMETER FOR CONDITION MONITORING



PROPERTIES

- 1-axis
- Wide bandwidth (0 –24kHz)
- Embedded 4 – 20 mA signal conditioning
- Self-powered current loop
- Galvanically isolated
- Protected against false polarization
- Compact and rugged design
- IP67 ingress protection grade

BLOCK DIAGRAM



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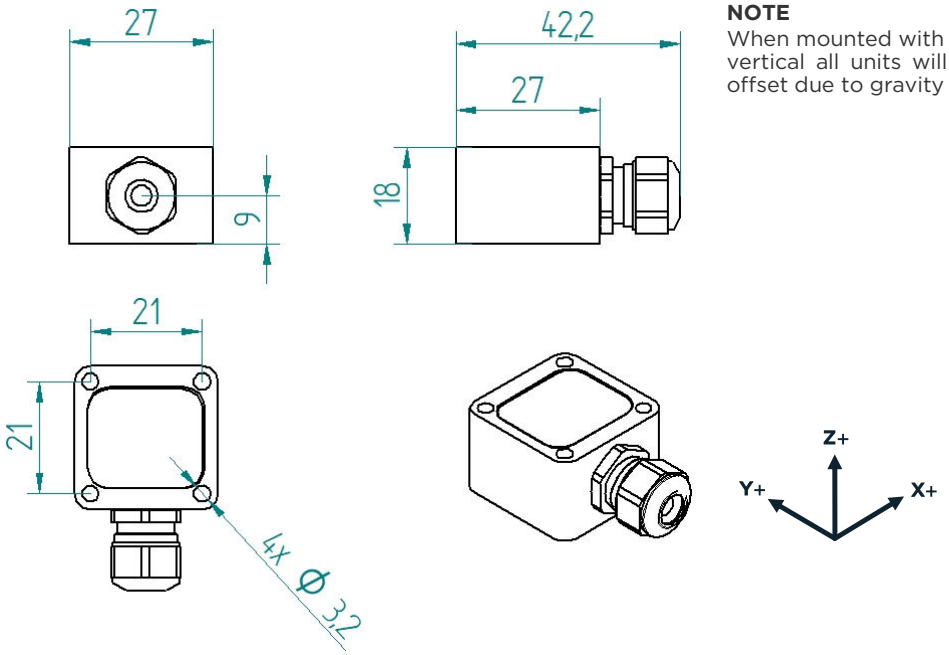
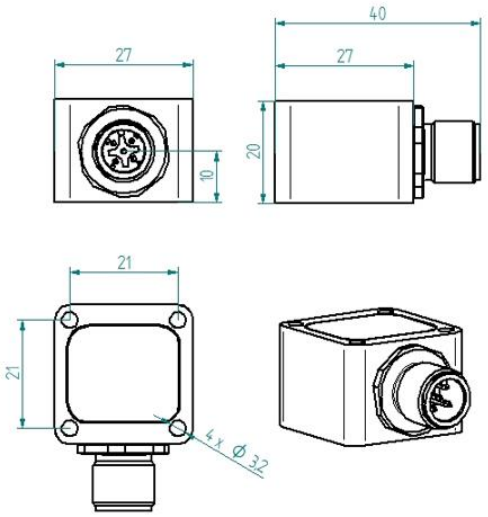
DIMENSIONS – Cable Gland Model



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”

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SPECIFICATIONS – ALL MODELS

OUTPUT/CHANNEL	Output Range	4-20mA	
	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 (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	2 x 0,25²
Sensor supply + input	Sensor supply + input	Sensor supply + input	White
X Axis Out	Y Axis Out	Z Axis Out	Brown

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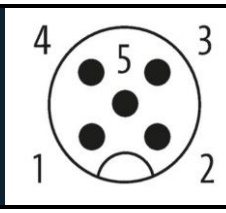
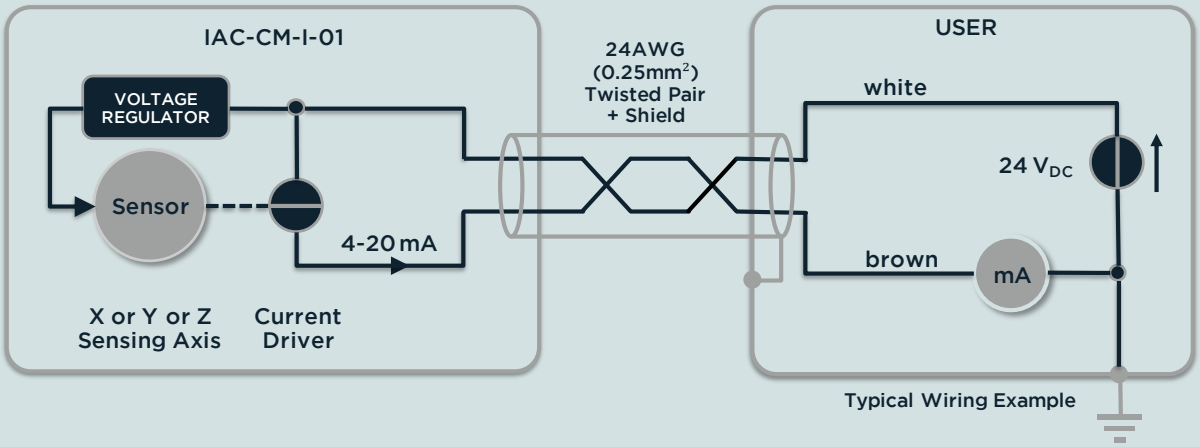
ELECTRICAL CONNECTIONS – M12 Connector Model

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

ELECTRICAL CONNECTIONS



ORDERING INFORMATION

IAC - CM	-	I	-	01	-	A	-	XX	-	Xg	-	XX	-	XX.X m

Sensing Axis
X
Y
Z

Cable Connection	
CG	Cable Gland
CO	M12

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

Casing	
AL	Aluminium
SS	Stainless Steel

Cable Length
Value in meter

Sensocon
Sensorik und Messtechnik
Q7, 24 - 68161 Mannheim
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vertrieb@sensocon.de

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