

CB-101 Accelerometer

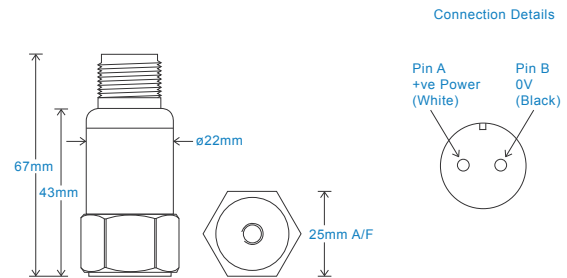
AC acceleration output via 2 Pin MS Connector

Key Features

- Most common seller
- For use with data collector
- Customisable features

Industries

Building services, Pulp and Paper,
Mining, Metals, Utilities, Automotive,
Water, Pharmaceutical



Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' $\pm 5\%$
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) $\pm 5\%$ 0.8Hz (48cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$
Principal Axis Sensitivity	100mV/g $\pm 5\%$
Amplitude Linearity	F% Δ [$\frac{\Delta E}{E} \times 100$] peak Δ
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel-SS304
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	125gms (nominal)
Connector	HS-AA053 or HS-0054 - booted
Mounting Threads	see: 'How To Order' table

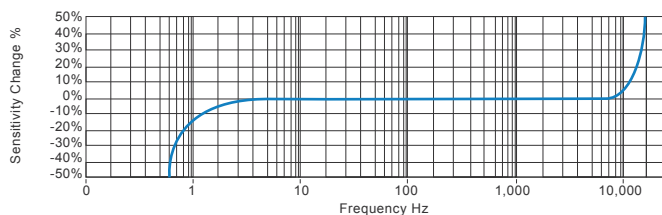
Electrical

Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	2 seconds
Output Impedance	200 Ohms max.
Case Isolation	$>10^8$ Ohms at 500 Volts

Environmental

Operating Temperature Range	-55 to 140°C
Relative Humidity	100%RH
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

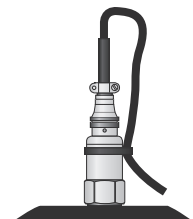
Typical Frequency Response (at 100mV/g)



Applications

Fans, Motors, Pumps, Compressors,
Centrifuges, Conveyors, Air Handlers,
Gearboxes, Rolls, Dryers, Presses,
Cooling, VAC, Spindles, Machine Tooling,
Process Equipment

Vibration sensor should be firmly fixed to a flat surface
(spot face surface may be needed to be produced and
cable anchored to sensor body.)



How To Order

Product Prefix CB - Shinkawa	Product Series 100 - Industrial Vibration Sensor	Cable Length (if integral cable) QXX - length specified in metres
C	B	1
0	1	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X
X	X	X

Extra Options (if required)	Sensitivity	Range	Resonant Frequency	Cable/Connector	Mounting Threads
F - Filtered	010 - 10mV/g	$\pm 800\text{g}$	28kHz (1,680kcpm)	50 - 2 Pin MS	01 - 1/4-28" UNF Female
T - Temperature Output	030 - 30mV/g	$\pm 250\text{g}$	26kHz (1,560kcpm)		02 - 1/4-28" UNF Male
Y - 5% tolerance on sensitivity	050 - 50mV/g	$\pm 160\text{g}$	24kHz (1,440kcpm)		05 - Quick Fit Female
	100 - 100mV/g	$\pm 80\text{g}$	22kHz (1,320kcpm)		06 - M6 x 1mm Male
	250 - 250mV/g	$\pm 32\text{g}$	20kHz (1,200kcpm)		08 - M8 x 1.25mm Male
	500 - 500mV/g	$\pm 16\text{g}$	18kHz (1,080kcpm)		10 - M10 x 1.5mm Male



Shinkawa Electric Co., Ltd.
4-3-3 Kojimachi
Chiyoda-ku
Tokyo 102-0083, Japan
Tel: 81-3-3263-4417
Fax: 81-3-3262-2171



We reserve the right to alter the specification of this product without prior notice
TS755.2