



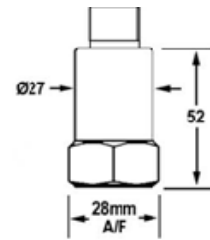
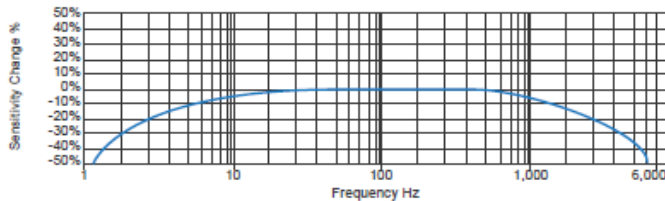
RC420 Accelerometer

4-20mA velocity output



- Low cost online means of monitoring with the capability of interfacing direct into PLC, BMS or any 4-20mA input module.
- Proven use in vibration monitoring for offline applications using commercially available data collectors.
- Protection of Fans, Motors, Pumps, Compressors, Centrifuges, Conveyers, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, HVAC, Spindles, Machine Tooling, Process Equipment and many more.

Technical data:	2 Pin MS Connector	M12 connector	Braided Cable/ Fire Retardant cable	PUR Cable/ Silicon Screened cable
Mounted Base Resonance	5 kHz min.			
Frequency Response	10Hz to 1 kHz \pm 5% - ISO10816			
Case Isolation	$> 10^8$ Ohms at 500 Volts			
Range	50 g peak			
Transverse Sensitivity	Less than 5%			
Current Output	4-20 mA DC proportional to Velocity			
Output Impedance	Loop Resistance 600 Ohms max. at 24 Volts			
Supply Voltage	15-30 Volts DC (for 4-20 mA)			
Settling Time	2 seconds			
Case Material	Stainless Steel			
Sensing Element/Construction	PZT/Compression			
Mounting Torque	8 Nm			
Weight	150 gms nominal			
Operating temperature Range	-25°C to 90°C			
Maximum Shock	5000g			
EMC	EN61326-1:2013			
Sealing	IP68	IP67	IP65	IP68
Waterproof	NA			100m/10bar
Standard Cable Length	NA		5 metres	
Maximum Cable Length	NA		1000 metres	



Ordering Information

Product Prefix
RC = RC Sensors

Product Series
420 = Industrial Vibration Sensor

Cable Length (if applicable)
e.g. 005 = 5 metres

R C 4 2 0 X X X X X X X X X X X

Extra Options (if required)

F - Filtered
I - Intrinsically Safe
L - 316L Stainless Steel
RT - Temperature Output PT100
S - 90° Side Exit
T - Temperature Output

P - Peak Range
PP - Peak to Peak Range

Velocity Range

(RMS unless specified)

010 - 0 - 10 mm/sec
020 - 0 - 20 mm/sec
025 - 0 - 25 mm/sec
050 - 0 - 50 mm/sec
100 - 0 - 100 mm/sec

Cable/Connector

01 - PUR
02 - Braided
07 - Silicon
08 - Flame Retardant
50 - 2 Pin MS
54 - M12

Mounting Thread

01 - ¼" - 28 UNF Female
02 - ¼" - 28 UNF Male
05 - Quick Fit Female
06 - M6 x 1mm Male
08 - M8 x 1.25mm Male
10 - M10 x 1.5mm Male

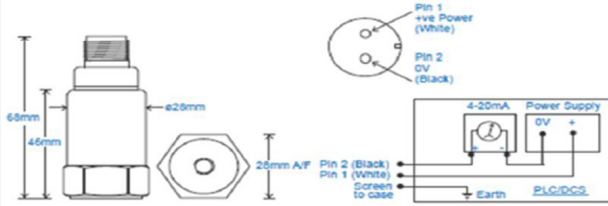
RC Vibration sensors



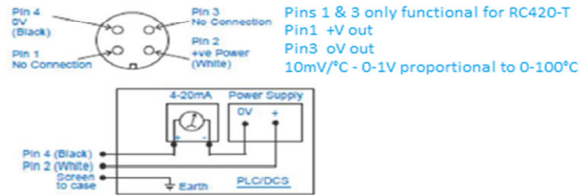
RC-420 Accelerometer

Installation Notes

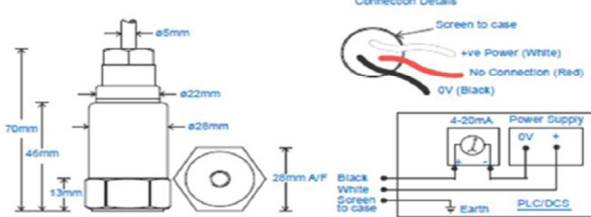
2 Pin MS connector



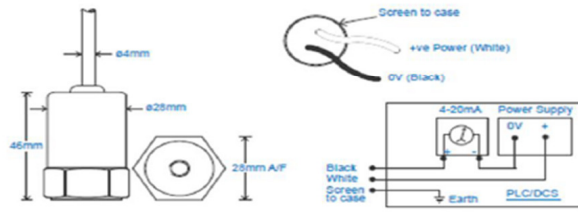
M12 connector



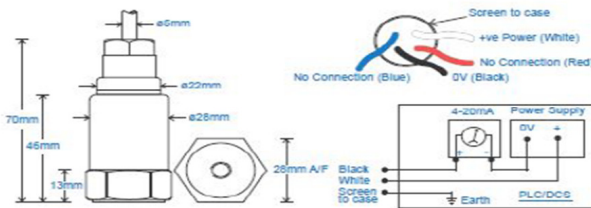
Silicon screened cable



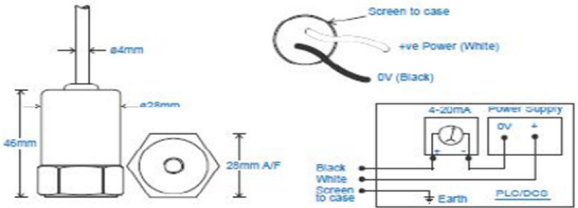
Braided cable



PUR cable



Fire retardant cable



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.)

For more information contact:

R&C INSTRUMENTATION

086 111 4217
info@randci.co.za
www.randci.co.za