

# Acceleration sensor

RVT-120HT Code: 600-10507

## Key features

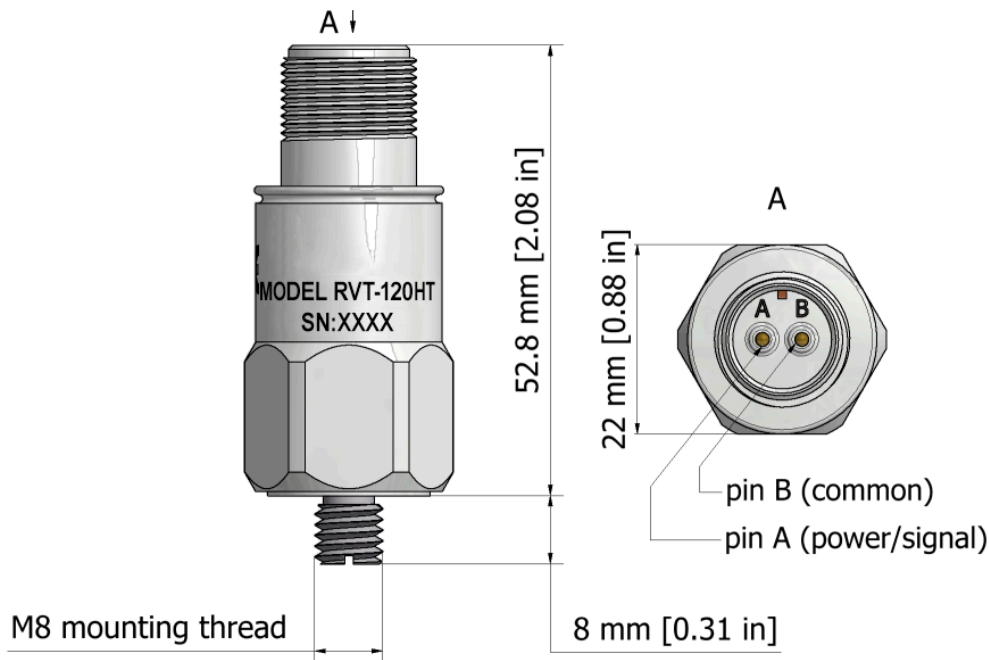
- Rugged design
- Corrosion resistant
- Hermetic seal
- ESD protection
- Reverse wiring protection
- EMI/RFI shielded
- Top exit connector
- Case isolated
- High temperature operation



RVT-120HT is a high quality low profile industrial accelerometer for mechanical condition monitor. It can be used with on-line systems as well as portable data collectors.

RVT-120HT is suitable for monitoring of most machinery in different speed ranges in e.g. following industries:

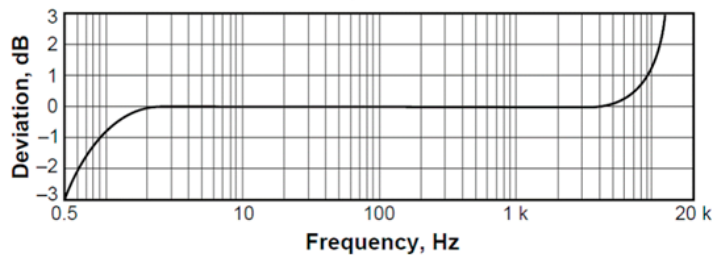
- Pulp and Paper
- Mining and mineral industry
- Power generation
- Steel industry



## RVT-120HT specifications

<b>Dynamic</b>	Sensitivity, $\pm 5\%$ , 25 °C	100 mV/g
	Acceleration range	80 g peak
	Amplitude nonlinearity	1%
	Frequency response	1...9 000 Hz
	$\pm 10\%$	0.5...14 000 Hz
	$\pm 3$ dB	
	Resonance frequency, mounted, nominal	30 kHz
	Transverse sensitivity, max.	5% of axial
	Temperature response	
	-25 °C	-10%
+150 °C	+15%	
<b>Electrical</b>	Power requirement	
	Voltage source	18...30 VDC
	Bias current	2...10 mA
	Output impedance, max.	100 $\Omega$
	Bias output voltage	
	+25 °C	13 VDC
	+150 °C	12 VDC
Grounding	Case isolated, internally shielded	
<b>Environmental</b>	Temperature range	-50...+150 °C
	Vibration limit	500 g
	Shock limit, min.	5 000 g peak
	Sealing	Hermetic
<b>Physical</b>	Sensing element design	PZT ceramic, shear
	Weight	90 g
	Case material	316L stainless steel
	Mounting	M8 integral stud (6 Nm max. torque)
	Output connector	2 pin, MIL-C-5015 style
	Pin A	Signal/power
	Pin B	Common

**TYPICAL FREQUENCY RESPONSE**



**TYPICAL TEMPERATURE RESPONSE**

