Velocity RMS sensor

RVL-160 Code: 600-10024

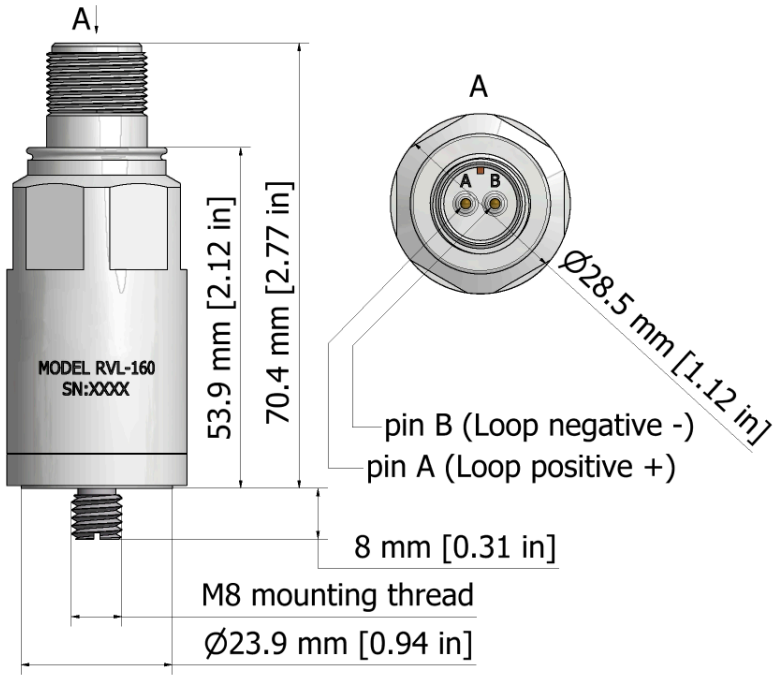
Key features

- 4-20 mA output proportional to over-all vibration level
- Rugged design
- Corrosion resistant
- Hermetic seal
- ESD protection
- Reverse wiring protection
- Overload protection
- Top exit connector

RVL-160 is a true RMS velocity output sensor for mechanical condition monitoring. It is typically used for continuous overall vibration level monitoring in industrial control systems. The sensor provides a 4-20 mA output and can therefore be easily connected to any PLC or DCS.

RVL-160 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



RVL-160 specifications

Output, 4-20 mA	Full scale, 20 mA (±5%)	12.7 mm/s
	Frequency response	
	±10%	10...1 000 Hz
	±3dB	3.5...2 000 Hz
	Repeatability	±2%
	Transverse sensitivity, max.	5%
Electrical	Power requirements	
	Voltage at sensor terminals	10...30 VDC
	Loop resistance at 24 VDC, max.	700 Ω
	Turn on time, 4-20 mA loop	30 sec
	Grounding	Case isolated, internally shielded
Environmental	Temperature range	-40...+105 ºC
	Vibration limit	250 g
	Shock limit, min.	2 500 g
	Sealing	Hermetic
Physical	Sensing element design	PZT ceramic, shear
	Weight	160 g
	Case material	Stainless steel
	Mounting	M8 integral stud (6 Nm max. torque)
	Output connector	2 pin, MIL-C-5015 style
	Pin A	Loop positive (+)
	Pin B	Loop negative (-)

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For more information, contact your local Valmet office. www.valmet.com

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