

Vibration Switch and transducer

Vibration switches detect transient faults and protect machinery against catastrophic failures between routine monitoring periods.

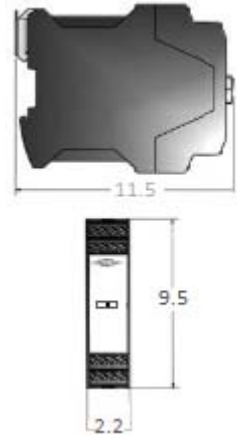
Even personnel not familiar with vibration analysis may easily recognize alarm conditions using VibroRail100 standard process control signal which can interface with standard PLC, DCS and SCADA systems.



VibroRail-100R



VibroRail-100B



Technical Data

VibroRail100R and VibroRail100B	
Sensor:	any type of vibration sensor
Signal Conditioner:	Amplifier/integrator to obtain velocity or displacement response
Frequency Response:	1 Hz to 10 kHz (Optional)
Adjustable alarm and Trip Delay:	0.5 up to 15sec
Temperature Limits:	-4 to 176°F (-20 to 80°C)
Input Power:	Nom: 24VDC, 100mA max
Dynamic Signal Buffered Output:	Sensor buffer signal
Field Wiring: (buffer output to Connection Box)	Maximum wire: 1 m
Hazardous Area Certification:	-----
Source Output:	4 ~ 20mA 0.37 mA/mm/s
Adjustable Full Scale Range:	with jumper (gain 1,2,5,10)
Reset:	local reset with key/ remote reset with 24Vdc
Relays:	1 SPDT, 1A Form C 24Vdc

Physical

	VibroRail100R	VibroRail100B
Mounting:	35 mm DIN Rail	
Humidity range :	0-95% relative, non-condensing	
Dimension:	11.5*9.5*2.2 cm	
LEDs:	4 LEDs Power ,Loop, Set.p and relay	
Reset alarm button	✓	-----
Buffer Output	Terminal	BNC output

Environmental

- **Operating Temperature:** -25°C to +80°C
- **Humidity:** 0% to 95% non-condensing

Order Information

Standard order: 3-A-100A-05-06-V-01K-10-O-O

VibroRail100

Configuration	Select Sensor	Input Source	Full Scale Range	Alert Value	Units	Low Pass Filter	High Pass Filter	Output	Relay
3 = ISO (Standard) (see example above) 7 = Factory configured per part number All VibroRail100 system are user configurable after initial set up	A =Accelerometer V =Velocity D = Displacement	500A = 500 mV/g Accelerometer 100A = 100 mV/g Accelerometer 050A = 50 mV/g Accelerometer 010A = 10 mV/g Accelerometer 100V = 100 mV/IPS Velocity Sensor 500V = 500 mV/IPS Velocity Sensor 200D = 200 mV/mils Displacement 008D = 8 V/mm Displacement	01 = 0 - 200 02 = 0-100 05 = 0-40 10 = 0-20	01=1 02=2 03=3 04=4 05=5 XX=X	A =m/s ² V = mm/s U =µm	01K =1000Hz 02K = 2000Hz	02 =2Hz 10 = 10 Hz	O =4~20 mA (Overall data) D =4~20 mA (Dynamic Data)	O =NO C =NC