

# VibroRail100

## Vibration Switch and transducer

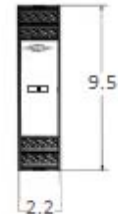
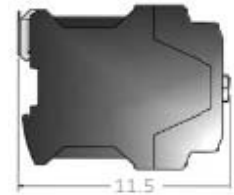
**Signal Conditioners identify transient faults and guard against catastrophic failure between routine monitoring cycles.**

Now, personnel who are not "vibration experts" can easily recognize alarm conditions using the VibroRail100 standard process control signal to interface with standard PLC, DCS and SCADA systems.



### Technical Data

- |   |  |
|---|--|
| • <b>Sensor:</b>                          | any type of vibration sensor                                     |
| • <b>Signal Conditioner:</b>              | Amplifier/integrator to obtain velocity or displacement response |
| • <b>Frequency Response:</b>              | 1 Hz to 10 kHz (Optional)  |
| • <b>Adjustable alarm and Trip Delay:</b> | 0.5 up to 15sec  |
| • <b>Temperature Limits:</b>              | -40 to 176°F (-40 to 80°C)                                       |
| • <b>Input Power:</b>                     | Nom: 24VDC, 100mA max  |
| • <b>Buffered Dynamic Signal Output:</b>  | 100mV/g  |
| • <b>Field Wiring:</b>                    | Maximum wire gauge: 10   |
| • <b>Electromagnetic Compatibility:</b>   | EMC and Safety Certificate                                       |
| • <b>Source Output:</b>                   | 4 ~ 20mA 0.37 mA/mm/s  |
| • <b>Adjustable Full Scale Range:</b>     | with jumper (gain 1,2,5,10)                                      |
| • <b>Mounting:</b>                        | 35 mm DIN Rail   |
| • <b>Reset:</b>                           | local reset with key/ remote reset with 24Vdc                    |
| • <b>Contacts:</b>                        | 1 SPDT, 1A Form C 24Vdc  |
| • <b>4 LEDs:</b>                          | Power ,Loop, Set,p and relay                                     |
| • <b>Humidity range :</b>                 | 0-80% relative, non-condensing                                   |
| • <b>Dimension:</b>                       | 11.5*9.5*2.2 cm  |



### 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
<b>3</b> = ISO (Standard) (see example above) <b>7</b> = Factory configured per part number  All VibroRail100 system are user configurable after initial set up	<b>A</b> =Accelerometer  <b>V</b> =Velocity  <b>D</b> = Displacement	<b>500A</b> = 500 mV/g Accelerometer <b>100A</b> = 100 mV/g Accelerometer <b>050A</b> = 50 mV/g Accelerometer <b>010A</b> = 10 mV/g Accelerometer  <b>100V</b> = 100 mV/IPS Velocity Sensor <b>500V</b> = 500 mV/IPS Velocity Sensor  <b>200D</b> = 200 mV/mils Displacement <b>008D</b> = 8 V/mm Displacement	<b>01</b> = 0 - 200 <b>02</b> = 0-100 <b>05</b> = 0-40 <b>10</b> = 0-20	<b>01=1</b> <b>02=2</b> <b>03=3</b> <b>04=4</b> <b>05=5</b> <b>XX=X</b>	<b>A</b> =m/s <sup>2</sup>  <b>V</b> = mm/s  <b>U</b> =µm	<b>01K</b> =1000Hz <b>02K</b> = 2000Hz	<b>02</b> =2Hz <b>10</b> = 10 Hz	<b>O</b> =4~20 mA (Overall data)  <b>D</b> =4~20 mA (Dynamic Data)	<b>O</b> =NO <b>C</b> =NC

### Accessories:

#### •Sensor:

##### Accelerometer

- AS200
- AC102
- VK-315A (high temperature)
- VD-30

##### Eddy Current

- ES500

#### •Sensor cable: Cable Length Option in meter

Part number: SC-XXX (example: SC-002)

Maximum length: depends on bandwidth

#### •Data cable: Cable Length Option in meter

Part number: DC-XXXX (example: DC-0001)

Maximum length: 1200m

#### •Vibration Indicator

Part number: MT4W-DA-4N



#### •Power Supply

Part number: PS24-XXA (example: PS24-01A)

Maximum Current: up to 10 A

#### •BNC Connection Box:

Part number: BNC-08



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OPTIMIZATION INSTRUMENTS**

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