VIBRATION SWITCH

VK SERIES

DESCRIPTION

The IFM Efector VK Series vibration monitor continuously monitors HVAC and industrial equipment to prevent machine downtime and expensive downtime. The compact VK Series switch is designed to be permanently mounted to monitor a machine's vibration level. The monitor provides continuous feedback of vibration within a range of 10Hz to 1000Hz with a 4-20 mA analog signal. Setup is quick using two setup dials to adjust the maximum RMS velocity setpoint and response delay time. The sensor continuously monitors real-time RMS vibration velocity (based on the ISO 10816 standard) and provides an analog output of the velocity as well as a switching output when an alarm value is exceeded. Highly-visible LEDs provide local indication for power and alarm.



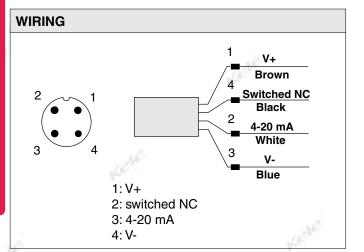


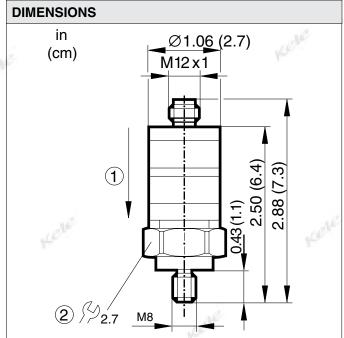




FEATURES

- · Two easy to use dual setup dials
- · Solid state electronics
- · Analog and switched outputs
- No software needed
- · Local LEDs for power and switching status





SPECIFICATIONS

Supply Voltage 18 – 32 VDC, 525 mA Signal Output 4-20 mA

Maximum Output

Impedance mA 500Ω

Contact Rating 0.5Å DC PNP (Sourcing)
Contact Type 1 NC open collector transistor

Accuracy
Transmitter <±5% of full range
Switch <±4% of full range
Linearity <±0.25% of full range
<0.5% of full range

Measurement Range

VK021 0 to 1"/second (0-25 mm/second) **VK022** 0 to 2"/second (0-50 mm/second)

Frequency Range 10 Hz to 1000 Hz

Visual Indication Power Green LED Switching status Yellow LED (Energized = Switched) Shock 400g

Switch Adjustment up to 50 mm/sec Time Delay 1 to 60 seconds

Process Connection M8 (order mounting adapter

separately)

Wiring Terminations 4 pin M12 reg foot connector (order

separately)

Operating Temperature 13° to 176°F (-25° to 80°C)

Enclosure Rating PBT (Pocan); PC (Makrolon); FPM

(Viton); stainless steel 316L, IP67,

NEMA 1

Dimensions 1.06" diameter x 2.88"H

(2.7 x 7.31 cm) UL File E174189, CE

 Approvals
 UL File E174189,

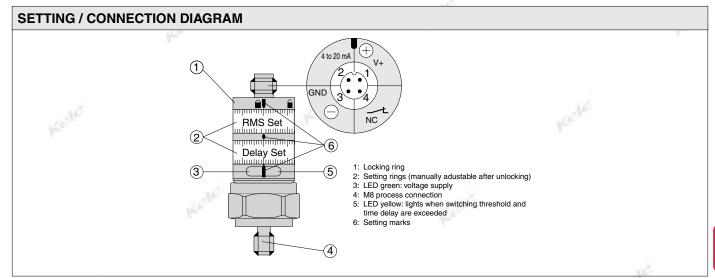
 Weight
 1.0 lb (0.45 kg)

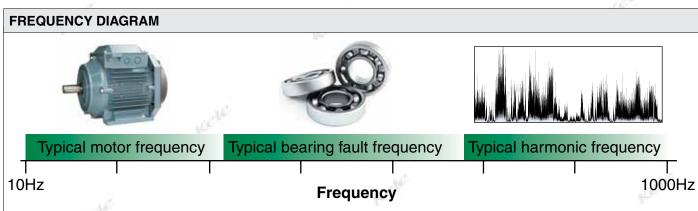
Warranty 2 years

GAS & SPECIALTY SENSORS

VIBRATION SWITCH VK SERIES







ORDERING INFORMATION

MODEL VKV021 DESCRIPTION
VK Series vibration monitor, switch point 0 to 25 mm/sec
VKV022 VK Series vibration monitor, switch point 0 to 50 mm/sec
Ordering Note: Connector and mounting required, see below

DCP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT	995
DCPA-1.2	Power supply, 120 VAC IN to 24 VAC/24 VDC OUT	994

March 2014