

1 Products covered by this bulletin comply with 2004/108/EC (European electromagnetic compatibility) except as noted.

The Electronic Vibration Switch (EVS-2) protects against equipment failure by monitoring velocity-based vibration levels and providing an early warning or shutdown when abnormal vibration is detected.

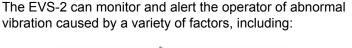
The EVS-2 can be connected to Murphy's TTD[™] Annunciator, Centurion[™] or Centurion *PLUS*[™] controllers for increased functionality. It complements Murphy's VS2[™] shock and excessive vibration/pulsation switch designed to detect abnormal shock or pulsation due to equipment failure and to shutdown other equipment in a system to prevent further damage.

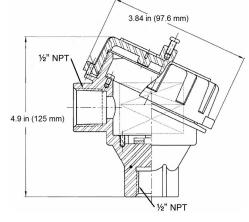
The EVS-2 offers two adjustable level detectors with definable response delay for either Warning or Shutdown alarms. Measuring ranges and response times of the level detectors are set by DIP switch. The assigned relay powers a warning or shutdown alarm.

The EVS-2 can be used on any equipment where abnormal vibration could lead to equipment damage, including:

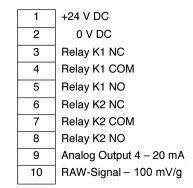
- · Cooling Fans
- Engines
- Pumps
- Compressors
- · Gear Boxes
- Motors
- Generator Sets

- · Imbalance and misalignments
- · Defective sleeve bearings
- · Broken tie-down bolts
- · Defective ball or roller bearings
- Gear mesh
- Blade-pass frequencies
- · Detonation or broken parts





Terminal Connections



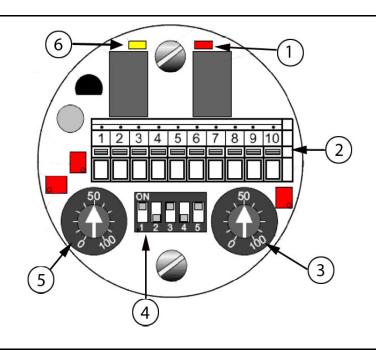
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Specifications

PERFORMANCE		RELAY	
Vibration Range (Adjust jumper S1)	0.75, 1.5 or 3.0 IPS Peak	Switch Contact Capacity	30 VDC/1A, 150 VAC/0.46
Frequency Range	5 to 1000 Hz	Relay Function	Non-latching
Analog Output (R _{load})	4-20 mA ≤ 500Ω	Threshold Set Point	10 to 100% of Alarm Set Po
RAW Signal (R _{load})	100 mV/g (offset +5VDC)	Normally Energized (NE)	Fail Safe
	≤ 20 kΩ	Time Delay (Adjust DIP switch	1 or 5 seconds
		S1 and S5)	
ENVIRONMENT		PHYSICAL	
Operating Temperature	-22°F to + 185°F (-30°C to + 85°C)	Housing Material	Aluminum / Epoxy Paint (Re
Storage Temperature	-40°F to + 185°F (-40°C to + 85°C)	Weight	1.5 Lbs (0.7 Kg)
Enclosure Classification	IP68	Size (H x W)	4.9 in. x 3.9 in. (125 x 100 n
Cable Connection	1/2 NPT, IP66, IRA 06 ATEX	Mounting Threads	½" NPT Female, ½" NPT
	1188 X SIRA 07 ATEX 4327 X		Male/Male SS
ELECTRICAL		INDICATORS	
Sensor Type	Accelerometer	Alarm (LED)	Yellow
Power Required	20 to 30 VDC	Shutdown (LED)	Red
Current Draw	< 40mA		•
Electrical Connectors	Spring Terminals		
APPROVALS	· · · · ·	·	
CSA (c/us)	Class I, Div. 1, Grp A, B, C, D (T5)		
	Class II, Div. 1, Grp E, F, G (T5)		
	Class III, (T5)		
ΑΤΕΧ	Ex d IIC T6 IP68, Ex tD A21 T10	0°C IP68	

Mechanical Diagram

1	Red Channel 2 LED (K2)		
2	Spring Terminal 16-24 AWG.		
3	Channel 2 (K2) Vibration Set Point Potentiometer (Pot)		
4	DIP switches for vibration ranges and time delays		
5	Channel 1 (K) Vibration Set point Potentiometer (Pot)		
6	Yellow Channel 1 (K1) LED		



\How to Order

A single model provides all the features and benefits described in the bulletin. Order EVS-2 (PN: 20-70-0242).