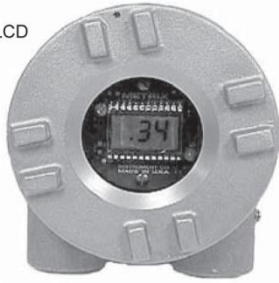


Electronic Vibration Switch

SW6000 Explosion proof housing

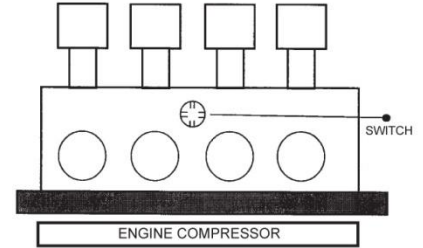
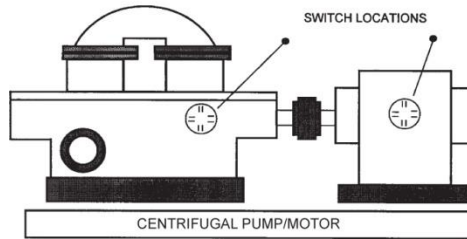
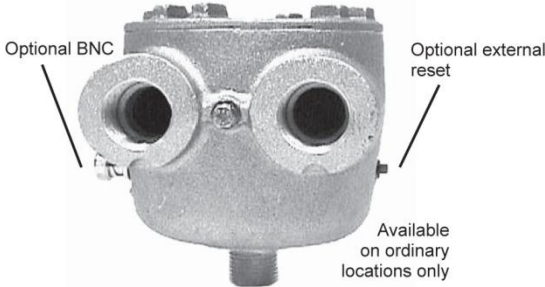
Shown w/LCD



SW6000 전자식 스위치는 다방면에 있어 사용하는 진동 보호 제품이다. 기본구성에서는 1개의 진동 point를 측정하는 가장 경제적인 제품이며, 산업용에서 사용할 수 있는 하우징을 공급한다.

모든, SW6000은 옵션에 따라 기계를 국지적으로 제어하기 위한 LCD 창, 4-20mA를 이용하는 실시간 원격 사용자 인터페이스 그리고 buffered dynamic vibration signal에 쉽게 접근하게 해 주는 외부 BNC(weather-proof only)가 있다. 위험 구역 인증 또한 옵션사항이다.

Typical Installations



Features

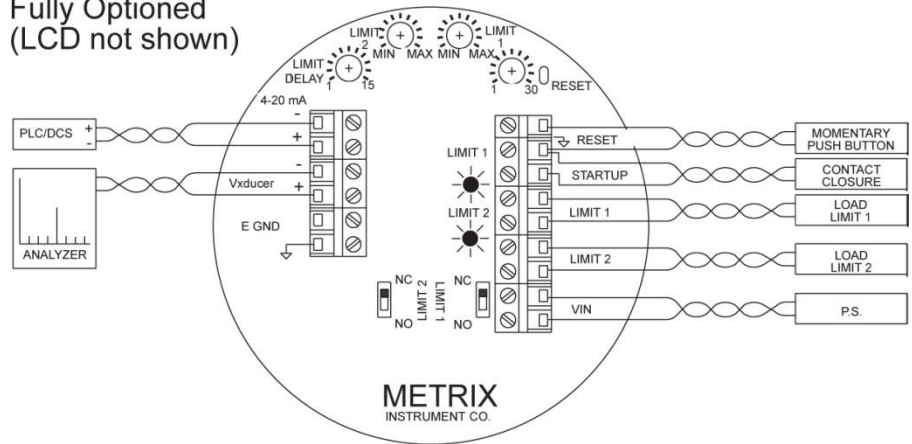
- 저비용, 규격화된 보호 시스템
- Weatherproof/option ex-proof rated
- Single or optional dual setpoint
- 속도 또는 변위 응답
- 조정 가능한 trip delay
- Setpoint test feature
- Buffered, dynamic vibration signal output for analysis

Applications

- Centrifugal Pumps
- Reciprocating Compressors
- Centrifuges
- Cooling Towers
- Industrial Fans
- Electric Motors
- Natural Gas/Diesel Engines

User Wiring Diagrams

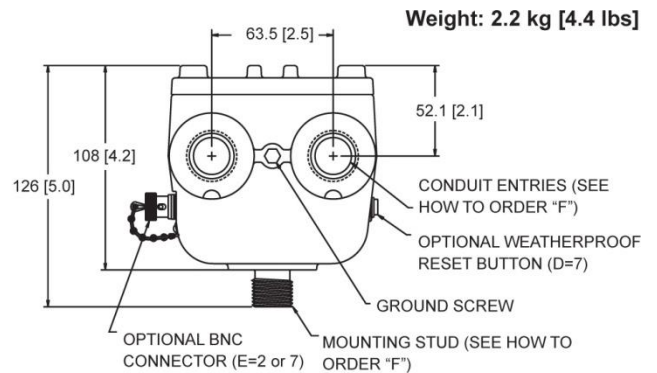
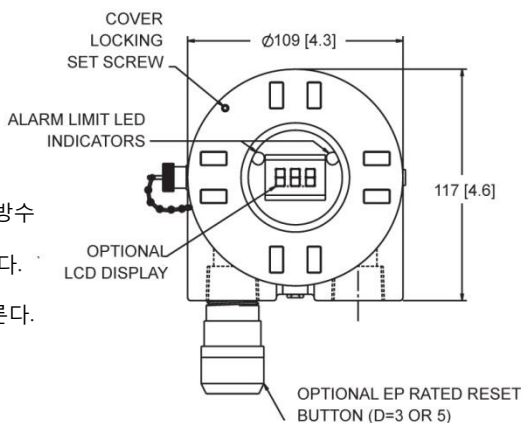
Fully Optioned (LCD not shown)



참고: 스위치 부착부분의 공간이 협소하여 외부 Seismic 센서를 사용하여야 하는 경우니 주파수 응답 혹은 온도에 대한 정보를 필요로 하는 경우 SM시리즈 모델을 참고한다.

Weight & Dimensions

- 참고:
- 1) 옵션 BNC 커넥터 및 방수 리셋 버튼은 비방폭 위치에서만 이용할 수 있다.
 - 2) 잠금 세트 스크류는 CENELEC 버전에서만 다룬다.



Weight: 2.2 kg [4.4 lbs]

Dimensions in mm [inches]

Electronic Vibration Switch

SW6000 Explosion proof housing

Specifications

Sensor: Internal piezoelectric accelerometer. Signal Conditioner: Amplifier/integrator to obtain velocity or displacement response. Triac Outputs: "A" = 1, 2, 5 or 6; 250 VAC, 1A, optically isolated; standard is N.C. (fail-safe), N.O. field selectable. Maximum Vibration Input: 0 to 490 m/sec ² (50 g), peak; 0 to 100 mm/sec (4 in./sec), peak Frequency Response: Velocity: 2 Hz to 500 Hz Displacement: 2 Hz to 200 Hz Adjustable Trip Delay: Factory set at 1 sec.; 1-15 sec adjustable Temperature Limits: No Display: -40° to +85°C (-40° to +185°F) W/Display: -10° to +70°C (+14° to +158°F)	Output Sensitivity vs Temperature: Less than .05%/°C (calibrated at 25°C) Cross Axis Response: Less than 10% Input Power: Nom. 115 VAC, 95 to 125, 50/60 Hz Nom. 230 VAC, 190 to 250, 50/60 Hz Nom. 24 VDC, 20 to 28 Galvanic Isolation: Power from circuit. Optional Buffered, Dynamic Signal Output: <i>Sensitivity:</i> 100 mV/g ±2% @ 25°C. <i>Frequency Response:</i> Acceleration: 2 Hz to 500 Hz Non-linearity: Less than 1% of full scale (F.S.) Field Wiring: Maximum wire gauge: 14 AWG; Wire clamp type screw terminal block 500 Vrms isolation from circuit	Housing: Cast aluminum. Weatherproof. Environmental Rating: NEMA 4, IP 65 Electromagnetic Compatibility: CE Marked Optional Hazardous Area Certification: Ordering Options "D" Optional Display: 2½ digit LCD Optional FET Transistor Output: 50 VDC, 0.5 A, N.C. (fail-safe) standard, N.O. field selectable Optional 4-20 mA Source Output: Proportional between 4-20 mA with 20 mA set to full scale. Zero and Span calibrated ±2%. Non-linearity < 2%. 600 ohms maximum load resistance.
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Ordering Options

SW6000 - -

A Limits & Display

WITHOUT DISPLAY

1	= one limit, triac
2	= two limit, triacs
3	= one limit, FET
4	= two limits, FETs

WITH DISPLAY

5	= one limit, triac
6	= two limit, triacs
7	= one limit, FET
8	= two limits, FETs

참고: 모터 시동 회로에 트라이악을 이용한다. PLC DC 입력이 필요한 경우 FET 트랜지스터 출력(들)이 권장된다.

B Full Scale Range

VELOCITY RESPONSE

0 1	= 1 ips, pk*
0 2	= 2 ips, pk*
0 3	= 20 mm/sec, pk*
0 4	= 50 mm/sec, pk*

DISPLACEMENT RESPONSE

5 1	= 20 mils, pk-pk
5 2	= 50 mils, pk-pk
6 1	= 200 microns, pk
6 2	= 500 microns, pk

*실제 RMS의 경우, 속도 교정은 대신 번호에 30을 더한다. 예) -01이 -31이 됨

C Input Power

1	= 115 VAC, single phase, 50/60 Hz
2	= 230 VAC, single phase, 50/60 Hz
3	= 20 - 28 VDC

D Certifications Local Reset Options

2	= CSA, NRTL/C, Class I, (B, C & D), Div 1
3	= CSA, NRTL/C, Class I, (B, C & D), Div 1 w/external reset
4	= CE & CENELEC Eex d IIB + H ₂ T4
5	= CE & CENELEC Eex d IIB + H ₂ T4 w/external reset
8	= Non-agency approved locations
9	= Non-agency approved locations with external reset

E Input/Output Options

0	= No options
2	= External BNC for dynamic signal access*
5	= 4-20 mA proportional to full scale range and separate startup and monitor time delays
7	= Options 2 & 5*

* D = 6 or 7 only

F Mounting/Conduit Entries

0	= 1/2" NPT stud mount/3/4" NPT conduit entry
1	= M20 x 1.5 stud mount/M20 x 1.5 conduit entry

Accessory

Part Number	Name	Used With	Description
7084-001	Flange Mounting Adapter	Any SW6000 with 1/2" NPT stud ("F"= 0)	S.S. adapter for surface mount of SW6000. 1/2" NPT center hole. Three equally spaced 6.6 (.26) dia. mount holes on 38 (1.50) dia. circle.

