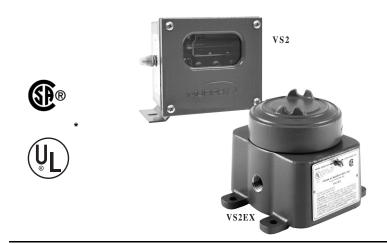


Shock and Vibration Switch – VS2 Series



Features

- Designed to Detect Shock/Vibration in 3-Planes of Motion
- · Fully Adjustable
- Includes Magnetic Latching Feature
- Manual or Electric Reset

* Selected Configurations are Third Party Listed

The VS2 Series switches are shock sensitive mechanisms for shutdown of engine or electric motor powered equipment. These switches use a magnetic latch to ensure reliable operation. Explosion-proof "EX" models for hazardous locations are available.

Applications

Ideal for use on engines, pumps, compressors, heat exchangers and pumping units, the VS2 Series can be used anywhere shutdown protection from damaging shock/vibration is desired. Switches are field adjustable to sensitivity required in each application.

Specifications

VS2 and VS2C	Shipping Weight: 4 lb 8 oz. (2 kg)
Case: Environmental Protection: Ingress protected to IP54 (when	Shipping Dimensions: 8-1/4 x 9-1/4 x 5 in. (210 x 235 x 127 mm)
mounted on a horizontal surface with drain holes down).	VS2EXR
Suitable for non-hazardous areas.	Case: Same as VS2EX
VS2C: C-clamp mount, includes 45 ft. (13.7 m) 2-conductor	Certification: CSA, UL
cable, and 5 cable clamps Contacts: SPDT-double make leaf contacts, 3A @ 240 VAC; 10A @120 VAC; 10A @ 32 VDC	Snap-switch: 1-SPDT snap-switch and reset coil; 5A @ 480 VAC; * 2A resistive, 1A inductive, up to 30 VDC
Shipping Weight:	Remote Reset: 115 VAC or 24 VDC (specify)
VS2: 2 lb 8 oz. (1.1 kg)	Shipping Weight: 5 lb 8 oz. (2.2 kg)
VS2C: 7 lb (3.2 kg)	Shipping Dimensions: 8-1/4 x 9-1/4 x 5 in. (210 x 235 x 127 mm)
Shipping Dimensions:	VS2EXRB
[•] VS2: 8-1/4 x 9-1/4 x 5 in. (210 x 235 x 127 mm)	Case: Explosion-proof aluminum alloy housing; rated Class I,
VS2C: 12 x 7 x 5-1/2 in. (305 x 178 x 140 mm)	Division 1, Group B hazardous areas
VS2EX	Certification: No third party certification
Case: Base mount, explosion-proof aluminum alloy housing; meets IP54 specifications; Class I, Division 1, Groups C & D; UL and CSA listed	Snap-switch: 1-SPDT snap-switch with reset coil (option available for 2-SPDT switches); 5A @ 480 VAC; 2A resistive, 1A inductive, up to 30 VDC
Certification: CSA, UL	Remote Reset: 115 VAC or 24 VDC (specify)
Snap-switches: 2-SPDT snap-switches; 5A @ 480 VAC; * 2A	Shipping Weight: 17 lb 8 oz. (7.9 kg)
resistive, 1A inductive, up to 30 VDC	Shipping Dimensions: 12 x 12 x 10 in. (305 x 305 x 254 mm)
Normal Operating Temperature: -40°F to 185°F (-40°C to 85°C)	
Basic Operation	

Basic Operation

Pushing the reset button moves the tripping latch into a magnetically held position. A shock/vibration will move the magnet beyond this holding position, thus freeing the spring loaded tripping latch to transfer the contacts and shutdown the machinery (see dimensional diagrams in the following pages for visual representation of parts).

Remote Reset Option (VS2EXR and VS2EXRB)

The remote reset option includes a built-in electric solenoid which allows reset of tripped unit from a remote location. Available for 115 VAC or 24 VDC.

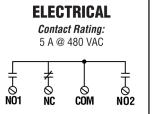
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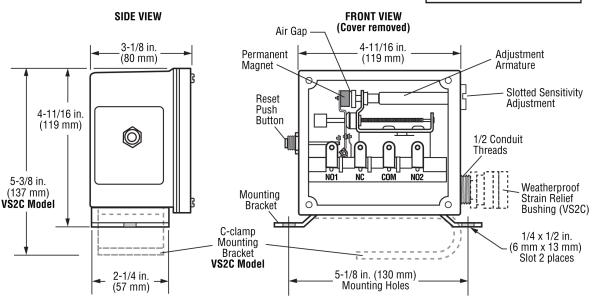
Dimensions

Environmental Protection: Ingress protected to IP54 (when mounted on a horizontal surface with drain holes down).

VS2 and VS2C

The VS2 and VS2C are designed for use in non-hazardous locations. They have leaf type SPDT, double make contacts that can be used for shutdown and/or alarm. They have a slotted sensitivity adjustment located on the side of the case (see drawing below).

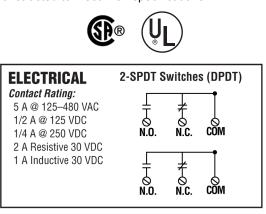


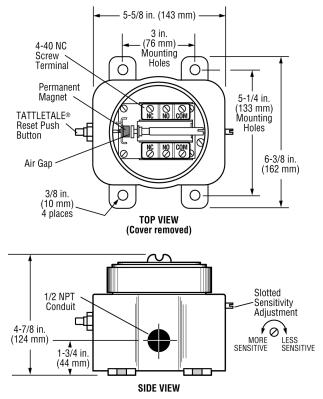


VS2EX

- IP54 Specifications
- Snap-switch Contacts
- TATTLETALE[®] Reset Button

Model VS2EX is housed in an explosion-proof enclosure with threaded cover. This enclosure is CSA and UL listed for Class I, Division 1, Groups C & D hazardous locations. In place of the leaf type contacts, 2-SPDT snap-switches are used in this model. Sensitivity is externally adjustable and, when tripped, the VS2EX gives a TATTLTALE[®] indication on the reset button. It is constructed to meet IP54 specifications.

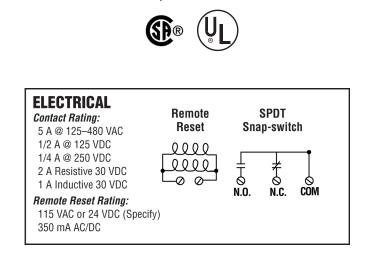


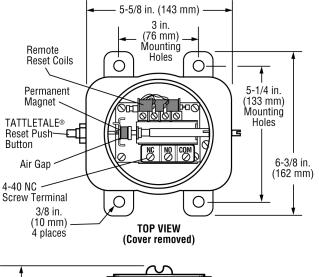


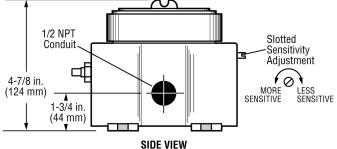
VS2EXR

- Remote Reset Feature
- IP54 Specifications
- Snap-switch Contacts
- TATTLETALE[®] Reset Button

Model VS2EXR features an electric remote reset feature in addition to the TATTLETALE[®] reset button. The VS2EXR uses only one SPDT snap-switch and is CSA and UL listed for Class I, Division 1, Groups C & D hazardous locations. It is constructed to meet IP54 specifications.



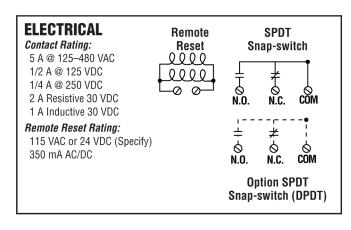


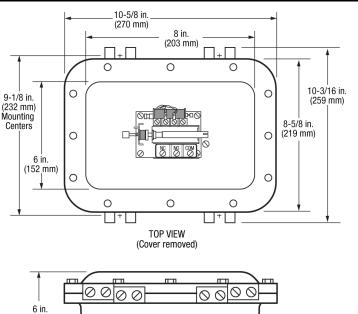


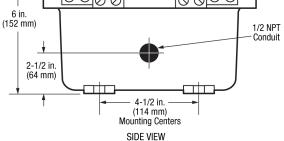
VS2EXRB

- For Group B Locations
- Snap-switch Contacts
- DPDT Feature Optional

Model VS2EXRB is constructed for use in Class I, Division 1, Group B, hazardous locations. It has, as standard, a SPDT snap-switch and an electric remote reset. Option is available for DPDT snap-switch







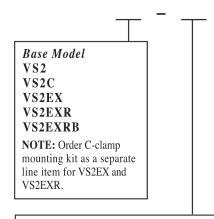
Service Parts

When ordering service parts, specify both part number and description in listing below. PART NO. DESCRIPTION VS2 and VS2C 20-00-0030 Movement assembly 20-00-0031 Glass and gasket assembly 20-00-0032 Reset push button assembly 20-05-0021 Mounting clamp (VS2C) 20-00-0261 Cable clamp assembly (1 each) (VS2C) 20-05-0465 2-Conductor electrical cable, 45 feet (13,7 meters) (VS2C) 20-00-0137 5 clamps and 45 feet (13.7 meters) of cable (VS2C) VS2EX 20-01-0091 Movement assembly 20-05-0087 Cover 00-00-0309 Cover gasket 20-01-0090 Snap-switch and insulator kit (1 switch per kit) prior to September 1, 1995. 20-00-0288 Snap-switch and insulator kit (1 switch per kit) for models manufactured on September 1, 1995 or later.* 20-00-0289 C-clamp conversion mounting kit VS2EXR 20-00-0262 Movement assembly 20-05-0087 Cover 00-00-0309 Cover gasket 20-01-0090 Snap-switch and insulator kit (1 switch per kit) prior to September 1, 1995.* 20-00-0288 Snap-switch and insulator kit (1 switch per kit) for models manufactured on September 1, 1995 or later.* 20-00-0049 Reset solenoid assembly (115 VAC) 20-00-0234 Reset solenoid assembly (24 VDC) 20-00-0289 C-clamp conversion mounting kit VS2EXRB 20-01-0090 Snap-switch and insulator kit (1 switch per kit) prior to September 1, 1995.* 20-00-0288 Snap-switch and insulator kit (1 switch per kit) for models manufactured on September 1, 1995 or later.* 20-00-0057 Inside snap-switch and insulator kit (1 switch per kit) for model VS2EXRB-D prior to September 1, 1995.* 20-00-0058 Outside snap-switch and insulator kit (1 switch per kit) for model VS2EXRB-D prior to September 1, 1995.* 20-00-0287 Inside snap-switch and insulator kit (1 switch per kit) for model VS2EXRB-D manufactured on September 1, 1995 or later.* 20-00-0290 Outside snap-switch and insulator kit (1 switch per kit) for model VS2EXRB-D manufactured on September 1, 1995 or later.* 20-05-0077 Adjustment shaft 20-00-0262 Movement assembly 20-00-0049 Reset solenoid assembly (115 VAC) 20-00-0234 Reset solenoid assembly (24 VDC)

*Models with date 0895 and before use old switch. Dated 0995 after, use straight snap-switch arm, no rollers.

How to Order

To order your VS2 Series model use the diagram below. Part number example: **VS2EXR-24**



Options

24 = 24 VDC reset coil on VS2EXR or VS2EXRB
15 = 115 VAC reset coil on VS2EXR or VS2EXRB
D = DPDT switch on VS2EXRB only
LC = Less case
LCC = Less cable and clamps on VS2C