

Electrical Signaling

Electrical protective signaling systems are configurations of components used to produce alarm signals indicative of fire, smoke, sprinkler waterflow or other emergency and to produce supervisory signals indicative of conditions needing attention with respect to protection equipment or watch service. System configurations are classified according to where and how the signals are received. The categories are commonly designated as local, municipal, remote station, proprietary, emergency voice/alarm communication, emergency communication, and central station. Auxiliary systems are either local or proprietary systems interconnected with a municipal system.

This category presents the major system component categories and the integrated system configurations. The selection of components to form a hybrid system should be made only by those skilled in system design. Also, the suitability of any system application should be judged on the basis of the hazard(s) being protected.

Supervisory Signal Initiating Devices

Supervisory signals indicate non-alarm conditions affecting important parts of a protection system or timed watchman tours. Normal/abnormal functions are monitored by these switches and switch-actuated transmitters.

Sprinkler System Supervision – Standard Security

Examples of sprinkler supervisory functions are control valve position, tank pressure, tank level, tank temperature, air pressure, fire pump power and fire pump operation.

Models OSYS-B, OSYSU-1, OSYSU-2

Gate Valve Switch. Models OSYS-B, OSYSU-1, OSYSU-2. For supervising open position of an OS&Y type gate valve. Contacts are rated for 15 A at 125/250 V ac and 2.5 A at 0-30 V dc. For indoor or outdoor (NEMA 4) use in ambient temperatures of -40° to 140°F (-40° to 60°C).

Company Name:	Potter Electric Signal Company
Company Address:	1609 Park 370 Place, Hazelwood, Missouri 63042, USA
Company Website:	http://pottersignal.com
New/Updated Product Listing:	No
Listing Country:	United States of America
Certification Type:	FM Approved

Waterflow Detectors, Vane Type

Waterflow detectors installed in sprinkler systems provide an electrical alarm when a flow of water from the system equals or exceeds that of a single sprinkler. They can be used with either open or closed signaling circuits.

They may consist of a flexible vane which projects into the waterway or a pressure-sensing device. For the flexible vane type, water movement deflects the vane, and the motion is transmitted to an alarm-actuating switch after a predetermined time delay. The time delay is accomplished by the use of an instantly recycling retard.

Unless otherwise noted in the listing, the flexible vane type is to be used with pipe having an inside diameter which corresponds to Schedule 40 pipe for sizes up to and including 6 in. (152 mm) or Schedule 30 pipe for sizes 8 and 10 in. (203 and 254 mm).

Waterflow detectors should not be specified for those systems where the time duration of a pressure fluctuation is greater than the retard time. Instantly recycling retards will not transmit an electrical alarm until the time duration of the pressure fluctuation or waterflow past the vane of the flow detector has exceeded the predetermined time setting of 30-60 seconds. Unless otherwise noted in the listing, these detectors have 175 psi (1205 kPa) rated working pressure.

Models VS-F, VSR, VSR-F, VSR-FE, VSR-FEX, VSR-TSK

Model VSR, VSR-TSK, VSR-F, VS-F, VSR-FE-2, VSR-FEX, VSR-EU Certificate 3022784

Model VSR. 2 through 8 in. NPS. Furnished with two snap switches and pneumatic retard. 450 psi (3100 kPa) rated working pressure.

Model VSR-TSK. 2 through 6 in. NPS. Furnished with two snap switches and pneumatic retard, and a tamper switch to indicate that the cover was removed. 450 psi (3100 kPa) rated working pressure.

Model VSR-F. 2 through 8 in. NPS. Furnished with one or two snap switches and pneumatic retard. 450 psi (3105 kPa) rated working pressure.

Models VS-F, VSR-F. 2 through 5 in. NPS, for use with Schedule 10 pipe; 6 in. NPS, for use with pipe having a wall thickness of 0.134 in. (3 mm); 8 in. NPS (203 mm), for use with pipe having a wall thickness of 0.188 in. (5 mm), or Schedule 40 pipe. Model VSR-F. 2 through 8 in. NPS furnished with one or two snap switches and pneumatic retard. 450 psi (3105 kPa) rated working pressure.

Model VSR-FE-2. 2 through 5 in. NPS, for use with Schedule 10 pipe; 6 in. NPS, for use with pipe having a wall thickness of 0.134 in. (3 mm); 8 in. NPS, for use with pipe having a wall thickness of 0.188 in. (5 mm). All sizes also for use in Schedule 40 pipe. 450 psi (3105 kPa) rated working pressure. Furnished with electronic retard.

Model VSR-FEX. 2 through 8 in. NPS. For simultaneous usage as explosionproof for Class I, Division 1, Groups C and D; dust-ignitionproof for Class II/III, Division 1, Groups E, F and G hazardous (classified) locations indoors and outdoors (NEMA Type 4); 2 through 5 in. NPS, for use with Schedule 10 pipe; 6 in. NPS, for use with pipe having a wall thickness of 0.134 in. (3 mm); 8 in. NPS, for use with pipe having a wall thickness of 0.188 in. (5 mm). All sizes also for use in Schedule 40 pipe. 450 psi (3105 kPa) rated working pressure. Furnished with pneumatic retard.

Model VSR-EU. Sizes 2 through 8 in. NPS. Furnished with two snap switches and pneumatic retard. 450 psi (3100 kPa) rated working pressure.

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Class of Work:	1042-Waterflow Detectors(vane type)