



Architects and Engineering Specification

System Sensor WFDNFS and WFDNFT Waterflow Detectors

The waterflow detector shall be System Sensor model WFDNFS or WFDNFT. The waterflow detector shall be listed to UL 346. The detector shall be a Vane-type waterflow detector with a non-metallic cover and shall be installed on system piping as designated on the drawing and/or as specified. Detectors shall mount on any clear pipe span of the appropriate nominal size, either a vertical up-flow or horizontal run, at least 6" from any fittings that may change water direction, flow rate, or pipe diameter or no closer than 24" from a valve or drain.

Detectors shall have sensitivity in the range of 4 to 10 gallons per minute and a static pressure rating of 175 psi for 1", 1 ¼", 1 ½" or 2" CPVC pipes per UL. The detector shall respond to waterflow in the specified direction after a preset time delay of between 0 and 90 seconds that is field adjustable. The delay mechanism shall be a sealed mechanical pneumatic unit with visual and audible indication of actuation. The actuation mechanism shall include an ethylene vinyl acetate vane inserted through a hole in the pipe and connected by a mechanical linkage to the delay mechanism.

Outputs shall consist of dual SPDT switches (Form C contacts). Two conduit entrances for standard fittings of commonly used electrical conduit shall be provided on the detectors. A grounding provision is provided. Unless noted, enclosures shall be NEMA 4 listed by Underwriters Laboratories Inc. All detectors shall be listed by Underwriters Laboratories Inc. for indoor or outdoor use.