WFD Series Waterflow Detector



UL Models	ULC/Canadian Models	
WFD20	WFD20A	
WFD25	WFD25A	
WFD30-2	WFD30-2A	
WFD35	WFD35A	
WFD40	WFD40A	
WFD50	WFD50A	
WFD60	WFD60A	
WFD80	WFD80A	

Replacement Parts

A3008-00	Retard Mechanism
A77-01-02	Terminal Block
546-7000	Cover Tamper Switch Kit
WFDW	Cover Wrench
WFDN4	Replacement gasket kit



Product Overview

New WFD30-2 models install in 2" hole sizes

UL models are NEMA 4 rated

Sealed retard mechanism assures that the retard is not contaminated by dust and dirt when the cover is removed

Visual switch activation permits installer to accurately set retard under noisy conditions

Rugged, dual SPDT switches are enclosed in a durable terminal block

Accommodates up to 12 AWG wire

100% synchronization activates both alarm panel and local bell simultaneously







System Sensor's WFD series is compatible with schedule 10 through 40 steel pipe, sizes 2'' through 8'', and can be mounted in a vertical or horizontal position.

Robust Construction. The WFD series consists of a rugged, NEMA 4 rated enclosure. Designed for both indoor and outdoor use, the WFD series operates across a wide temperature range, from 32°F to 120°F.

Reliable Performance. UL listed models are equipped with tamper resistant cover screws to prevent unauthorized entry. Inside, two sets of SPDT (Form C) synchronized switches are enclosed in a durable terminal block to assure reliable performance.

False Alarm Immunity. The WFD series incorporates a mechanical retard feature, which minimizes the risk of false alarm due to pressure surges or air trapped in the sprinkler system. In addition, the mechanical retard's unique sealed design is immune to dust and other contaminants.

Simplified Operation. The WFD series is designed to simplify installation. Two conduit openings permit easy attachment to the local alarm system. The retard mechanism and dual SPDT switches are field-replaceable.

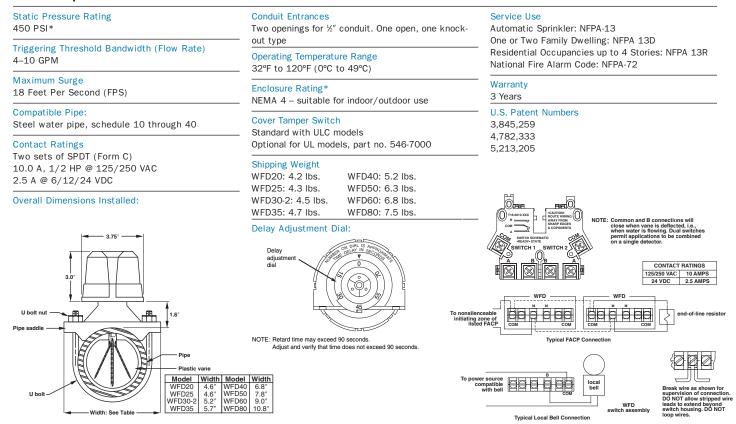




Engineering Specifications

Vane-type waterflow detectors shall be installed on system piping as designated on the drawing and/or as specified herein. Detectors shall mount on any clear pipe span of the appropriate nominal size, either a vertical upflow or horizontal run, at least 6" from any fittings which may change water direction, flow rate, or pipe diameter or no closer than 24" from a valve or drain. Detectors shall have a sensitivity in the range of 4 to 10 gallons per minute and a static pressure rating of 450 psi* for 2" - 8" pipes. The detector shall respond to waterflow in the specified direction after a preset time delay which is field adjustable. The delay mechanism shall be a sealed mechanical pneumatic unit with visual indication of actuation. The actuation mechanism shall include a polyethylene 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.

Standard Specifications



Ordering Information

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UL Model Numbers	ULC/Canadian Model Numbers	Pipe Size	Hole Size
WFD20	WFD20A	2"	11/4"
WFD25	WFD25A	2½"	11/4"
WFD30-2	WFD30-2A	3"	2"
WFD35	WFD35A	3½"	11/4"
WFD40	WFD40A	4"	2"
WFD50	WFD50A	5"	2"
WFD60*	WFD60A	6"	2"
WFD80*	WFD80A	8"	2"

^{*}Maximum pressure rating 400 psi as approved by Factory Mutual.

Part Number	Description
A3008-00	Retard mechanism
A77-01-02	Terminal block
546-7000	Tamper proof switch kit
WFDW	Tamper proof wrench for cover
WFDN4	Gasket kit