

WFDNA Series Waterflow Detector

The System Sensor WFDNA series is compatible with schedule 7 through 40 steel pipe, for sizes 2 in. through 4 in. and compatible with schedule 10 through 40 steel pipe, sizes 6 in. through 8 in., and can be mounted in a vertical or horizontal position.



Features

- · Directional cover allows installers and inspectors to easily see the direction of flow
- · ULC-listed models are NEMA 4 rated
- · Sealed retard mechanism immune to dust and other contaminants
- · Non-metallic, corrosion resistant cover reduces shock hazards
- · Audible and visual switch activation
- · Field-replaceable timer/switch assembly
- Accommodates up to 12 AWG wire
- Switch Synchronization activates both alarm panel and local bell or horn strobe
- Tamper-resistant cover screws
- · Ergonomic terminal block layout with wire-ready terminals
- · Snap-in optional cover tamper switch
- · Improved timer repeatability and accuracy

The new WFDNA Series waterflow detectors from System Sensor consists of a rugged, NEMA 4-rated enclosure that is more damage resistant than previous metal designs. The waterflow detector is designed for both indoor and outdoor use, with the widest available temperature range, from 0°C to 66°C (32°F to 150°F). They are also approved for installation on the widest range of pipe schedules, sizes 2 in. through 4 in. are approved for installation on pipe schedules 7 through 40.

ULC-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 with new layout designed to make wiring easy with wire ready terminals, COM terminals are on a different elevation, large barrier between switches and easy to read raised textured lettering all make wiring easy. An optional cover tamper switch is available, securely snaps into place, no tools required.

The WFDNA series incorporates a mechanical time delay feature, which minimizes the risk of false alarm due to pressure surges or air trapped in the fire sprinkler system. The larger and easy to turn timer dial makes setting the waterflow detector easy with high contrast pad printed markings. The dial offers three tabs to help with turning, with one larger tab located on the dial position for approximately 60 seconds, a notch is also indicated on the dial to locate approximately 30 seconds making setting the detector in dimmly lit locations easy.

The WFDNA series is designed for accuracy and repeatability. The detector also offers improved performance during vibration in riser applications where detectors are exposed to a large in rush of water.

Agency Listings



National Fire

TORONTO: (905) 761-6355 Toll Free: (800) 267-8508 Equipment Ltd. OTTAWA: (613) 723-6071

Toll Free: (800)-667-2138 BURNABY: (604)-299-4498

VANCOUVER: (604) 420-1131 EDMONTON: (780) 455-3870

Toll Free: (888)-891-1008

MONCTON: (506) 859-7277 Toll Free: (877) 816-3473

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CALGARY: (403) 236-5661

Waterflow Detector Specifications

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 in. from any fittings that may change water direction, flow rate, or pipe diameter or no closer than 24 in. 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 in. – 8 in. pipes. The detector shall respond to waterflow in the specified direction after a preset time delay 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 a 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. for indoor or outdoor use.

Standard Specifications			
Static Pressure Rating	450 PSI	Operating Temperature Range	32°F to 150°F (0°C to 60°C)
Maximum Surge	18 Feet Per Second (FPS)	Enclosure Rating*	NEMA 4 – suitable for indoor/outdoor use
Triggering Threshold Bandwidth (Flow Rate)	4 – 10 GPM	Cover Tamper Switch	Optional, part no. CTS
Conduit Entrances	Two openings for $\frac{1}{2}$ in. conduit.	Service Use	Automatic Sprinkler: NFPA-13 One or Two Family Dwelling: NFPA 13D Residential Occupancies up to 4 Stories: NFPA 13R National Fire Alarm Code: NFPA-72
Contact Ratings	Two sets of SPDT (Form C) 10.0 A, ½ HP @ 125/250 VAC 2.5 A @ 6/12/24 VDC	Warranty	3 Years
Compatible Pipe	Steel water pipe, schedule		

WFDNA Field Wiring Diagram



Delay Adjustment Dial



NOTE: RETARD TIME MAY EXCEED 90 SECONDS. ADJUST AND VERIFY THAT TIME DOES NOT EXCEED 90 SECONDS. NUMBER ON DIAL IS APPROXIMATE TIME DELAY IN SECONDS

Overall Dimensions, Installed



Ordering Info	ormation			
Model	Description			
ULC Model	Pipe Size	Hole Size	Shipping Weights	
WFD20NA	2 in.	1¼ in.	2.6 lbs.	
WFD25NA	21/ ₂ in.	1¼ in.	2.6 lbs.	
WFD30NA	3 in.	2 in.	3.1 lbs.	
WFD40NA	4 in.	2 in.	4.0 lbs.	
WFD50NA	5 in.	2 in.	4.9 lbs.	
WFD60NA	6 in.	2 in.	5.6 lbs.	
WFD80NA	8 in.	2 in.	7.3 lbs.	
Accessories				
FS-RT	Delay mechanism an	d switch assembly		
CTS	Tamper-proof switch	Tamper-proof switch kit		
WFDW	Tamper-proof wrench	Tamper-proof wrench for cover		
* 2 in 4 in. ra	ated for use with Schedule 7 through 40 pipe	e, 6 in 8 in. rated for use with Schedule 1	0 through 40 pipe	
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WFDTNA Series Waterflow Detector

System Sensor WFDTNA T-Tap Waterflow detectors are designed for primary signaling in residential systems and branch line signaling.



Features

- Directional cover allows installers and inspectors to easily see the direction of flow
- ULC-listed models are NEMA 4 rated
- Sealed retard mechanism immune to dust and other contaminants
- · Non-metallic, corrosion resistant cover reduces shock hazards
- Audible and visual switch activation
- · Field-replaceable timer/switch assembly
- Accommodates up to 12 AWG wire
- Switch Synchronization activates both alarm panel and local bell or horn strobe
- Tamper-resistant cover screws
- · Ergonomic terminal block layout with wire-ready terminals
- Snap-in optional cover tamper switch
- · Improved timer repeatability and accuracy

The new WFDTNA Series waterflow detectors from System Sensor consists of a rugged, NEMA 4-rated enclosure that is more damage resistant than previous metal designs. The waterflow detector is designed for both indoor and outdoor use, with the widest available temperature range, from 0°C to 66°C (32°F to 150°F).

The WFDTNA with incorporated timer fit any tee that has a 1in. NPT branch, including: 1in., 1¹/₄in., 1¹/₂ in. and 2in. NPT threaded ferrous and brass tees; 1in., 1¹/₄in., 1¹/₂in. and 2in. copper sweat tees; Tyco, Spears, NIBBCO brand 1 in. CPVC tees. Twelve different clearly marked plastic paddles are available to fit different installation configurations.

ULC-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 with new layout designed to make wiring easy with wire ready terminals, COM terminals are on a different elevation, large barrier between switches and easy to read raised textured lettering all make wiring easy. An optional cover tamper switch is available, securely snaps into place, no tools required.

The WFDTNA incorporates a mechanical time delay feature, which minimizes the risk of false alarm due to pressure surges or air trapped in the fire sprinkler system. The larger and easy to turn timer dial makes setting the waterflow detector easy with high contrast pad printed markings. The dial offers three tabs to help with turning, with one larger tab located on the dial position for approximately 60 seconds, a notch is also indicated on the dial to locate approximately 30 seconds making setting the detector in dimmly lit locations easy.

The WFDTNA series is designed for accuracy and repeatability. The detector also offers improved performance during vibration in riser applications where detectors are exposed to a large in rush of water.

Agency Listings



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Waterflow Detector Specifications

Engineering Specifications

Model shall be WFDTNA as manufactured by System Sensor. T-Tap waterflow detectors shall be installed on a tee that has a 1in. NPT branch including: 1in., 1¼in., 1½in. and 2in. NPT threaded ferrous and brass tee; 1in., 1¼in., 1½in. and 2in. copper sweat tees; Tyco, Spears, NIBBCO brand 1in. CPVC tees as designed 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 or valves that may change water direction, flow rate, or pipe diameter or no closer than 24in. 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 375 psi. The WFDTNA detector with incorporated time delay mechanism shall respond to waterflow in the specified direction after a preset time delay 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 a 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 of Canada for indoor or outdoor use.

Standard Specifications			
Static Pressure Rating	375 PSI	Operating Temperature Range	0°C to 66°C (32°F to 150°F)
Maximum Surge	18 Feet Per Second (FPS)	Enclosure Rating*	NEMA 4 – suitable for indoor/outdoor use
Triggering Threshold Bandwidth (Flow Rate)	4 – 10 GPM	Cover Tamper Switch	Optional for ULC and UL, part no. CTS
Conduit Entrances	Two openings for ½ in. conduit.	Service Use	Automatic Sprinkler: NFPA-13 One or Two Family Dwelling: NFPA 13D Residential Occupancies up to 4 Stories: NFPA 13R National Fire Alarm Code: NFPA-72
Contact Ratings	Two sets of SPDT (Form C) 10.0 A, ½ HP @ 125/250 VAC 2.5 A @ 6/12/24 VDC	U.S. Patent Numbers	5,213,205
Compatible Tee Fittings	Threaded ferrous and brass tees, copper sweat tees, CPVC tees.	Warranty	3 Years

WFDNA Field Wiring Diagram



Delay Adjustment Dial



NOTE: RETARD TIME MAY EXCEED 90 SECONDS. ADJUST AND VERIFY THAT TIME DOES NOT EXCEED 90 SECONDS. NUMBER ON DIAL IS APPROXIMATE TIME DELAY IN SECONDS

Overall Dimensions, Installed



DESIGNED TO FIT WITHIN 2 X 4 STUD WALL CONSTRUCTION

Ordering Information	
ULC Model	Description
WFDTNA	Waterflow Detector, Fits 1in., 11/2in., 11/2in., 2in. ferrous and brass threaded tees; 1in., 11/2in., 11/2in., 2in. copper sweat tees; 1in. CPVC tees.
Accessories	
FS-RT	Delay mechanism and switch assembly
CTS	Tamper-proof switch kit
WFDW	Tamper-proof wrench for cover

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BURNABY: (604)-299-4498
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WFDNFA Series Waterflow Detector

The System Sensor WFDNA series is compatible with schedule 7 through 40 steel pipe, for sizes 2 in. through 4 in. and compatible with schedule 10 through 40 steel pipe, sizes 6 in. through 8 in., and can be mounted in a vertical or horizontal position.



Features

- WFDNFSA has a glue-in adapter for connection to 1", 1¼", 1½" and 2" CPVC tees
- WFDNFTA has a NPT threaded adapter for connection to 1", $1\frac{1}{4}$ ",
- $1\frac{1}{2}$ " and 2" metal tees and 1" and $1\frac{1}{2}$ " CPVC tees
- · Directional cover allows installers and inspectors to
- easily see the direction of flow
- ULC-listed models are NEMA 4 / IP 54 rated
- · Cover is lightweight, unpainted and corrosion resistant
- Sealed retard mechanism immune to dust and other contaminants
- · Less exposed metal reduces shock hazard, plastic cover acts
- as insulator and is resistant to arcing
- Visual switch activation
- Audible switch activation (73 dBA)
- Field-replaceable timer/switch assembly
- Accommodates up to 12 AWG wire
- Switch synchronization activates both alarm panel and local bell or horn strobe
- Tamper-resistant cover screws
- Wire-ready terminals
- Improved wiring with new terminal block layout
- Snap-in optional cover tamper switch

The new WFDNFA Series waterflow detectors from System Sensor consists of a rugged, NEMA 4-rated enclosure that is more damage resistant than previous metal designs. The waterflow detector is designed for both indoor and outdoor use, with the widest available temperature range, from 32° F to 150° F (0°C to 60° C).

The WFDNFSA with glue-in tee adapter fits 1", 1¹/₄", 1¹/₂", and 2" CPVC tees manufactured by Tyco, Spears, NIBCO, and IPEX. The WFDNFTA with a threaded tee adapter fits 1", 1¹/₄", 1¹/₂", and 2" brass and copper threaded tees, in addition to 1" and 1¹/₂" CPVC

tees. Clearly marked plastic paddles are included to fit the different installation configurations.

ULC-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 with an layout designed to make wiring easy. The wire-ready COM

terminals are on a different elevation with a large barrier between switches and easy-to-read, raised, textured lettering. An optional cover tamper switch securely snaps into place, no tools required.

The WFDNFSA and WFDNFTA incorporate a mechanical time delay feature that minimizes the risk of false alarms due to pressure surges or air trapped in the fire sprinkler system. The large and easy-to-turn timer dial makes setting the waterflow detector easy

with high-contrast, pad-printed markings. The dial offers three tabs to help with turning: the largest tab is located on the dial position for approximately 60 seconds and a notch in the dial indicates approximately 30 seconds, making the detector easy to set in dimly lit locations.

The WFDNFA series is designed for accuracy and repeatability. Detectors also offer improved performance during vibration in riser applications where detectors are exposed to a large inrush of water.

Agency Listings





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BURNABY: (604)-299-4498 www.nationalfire.com

Waterflow Detector Specifications

Engineering Specifications

Model shall be WFDNFSA or WFDNFTA as manufactured by System Sensor. Waterflow detectors shall be installed on a 1", 1¼"., 1½". or 2". CPVC tee manufactured by Tyco, Spears, NIBCO, or IPEX 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 or valves that may change water direction, flow rate, or pipe diameter or no closer than 24in. 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 175 psi. The WFDNFSA or WFDNFTA detector with incorporated time delay mechanism shall respond to waterflow in the specified direction after a preset time delay 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 a 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.

Standard Specifications			
Static Pressure Rating	175 PSI	Operating Temperature Range	32°F to 150°F (0°C to 60°C)
Maximum Surge	18 Feet Per Second (FPS)	Enclosure Rating*	NEMA 4 – suitable for indoor/outdoor use
Triggering Threshold Bandwidth (Flow Rate)	4 – 10 GPM	Cover Tamper Switch	Optional, part no. CTS
Conduit Entrances	Two openings for ½ in. conduit. NEMA 4 rated plugs	Service Use	Automatic Sprinkler: NFPA-13 One or Two Family Dwelling: NFPA 13D Residential Occupancies up to 4 Stories: NFPA 13R National Fire Alarm Code: NFPA-72
Contact Ratings	Two sets of SPDT (Form C) 10.0 A, ½ HP @ 125/250 VAC 2.5 A @ 6/12/24 VDC		
Compatible Tee Fittings	1"	Warranty	3 Years

Overall Dimensions, Installed WFDNFSA, WFDNFTA

WFDNFSA / WFDNFTA Field Wiring Diagram

Equipment Ltd. OTTAWA: (613) 723-6071



Ordering Info	mation		
Model	Description		
WFDNFSA	Waterflow Detector with Glue In CPVC adapter , Fits 1in., 11/4in., 11/2in., 2in. CPVC tees		
WFDNFTA	Waterflow Detector with Threaded CPVC adapter , Fits 1in., 11/2in., 11/2in., 2in. brass threaded and copper sweat tees; 1in., 11/2in., 11/2in. CPVC tees		
Accessories			
FS-RT	Delay mechanism and switch assembly		
CTS	Tamper-proof switch kit		
WFDW	Tamper-proof wrench for cover		
WI DW			
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WFDEXP Explosion Proof Waterflow Detector

System Sensor's WFDEXP series is designed to handle extreme conditions.



Features

- New WFD30-2EXP models install in 2"hole sizes
- · Designed and approved to operate in hazardous locations
- NEMA 4 enclosure rating
- · Sensitivity setting spring mechanism located outside of explosion environment
- · Sealed retard mechanism
- Visual switch activation
- Synchronized activation circuit
- · Field-replaceable terminal block and retard mechanism
- Only one conduit entrance required for hook-up

These units are ideal for installation in hazardous locations classified as follows:

> Class I, Groups B, C, D, Division 1 & 2 Class II, Groups E, F, G, Division 1 & 2 Class III, Division 1 & 2

Robust Construction. The WFDEXP series consists of a rugged, NEMA 4 rated cast aluminum housing. Designed for both indoor and outdoor use, the WFDEXP series operates across a wide temperature range, from 32°F to 160°F. Inside, two sets of SPDT (Form C) synchronized switches are enclosed in a rugged terminal block, to assure reliable performance.

Reliable Performance. The WFDEXP series offers unique features that assure greater operational reliability. By housing the spring mechanism separately from the explosion environment, the sensitivity of the adjustment spring and the detector is protected at all times. Adding to the WFDEXP's reliability is its sealed retard mechanism, which prevents contamination by dust and dirt when the cover is removed.

Simplified Operation. Like all System Sensor waterflow detectors, the WFDEXP series is designed for easy installation. With its visible switch activation, the WFDEXP's retard timing can be verified, even during noisy conditions.

Agency Listings



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WFDEXP Explosion Proof Waterflow Detector

Architectural/Engineering Specifications

Vane-type explosion proof waterflow detectors shall be installed on system piping on the drawing and/or as specified herein. Detectors shall be mounted in hazardous locations classified as: Class I, Div. 1 and 2, Groups B, C, D; or Class II, Div. 1 and 2, Groups E, F, G; or Class III, Div. 1 and 2. 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 (one of which is a knockout type) for standard fittings of commonly used electrical conduit shall be provided on the detectors. A grounding provision is provided. Enclosures shall be NEMA 4 listed by ULC. All detectors shall be listed by ULC for indoor or outdoor use.

Physical/Operating Specifications			
Hazardous Locations Classifications	Class I, Div 1 and 2, Groups B, C, DClass II, Div 1 and 2, Groups E, F, GClass III, Div 1 and 2		
Static Pressure Rating	450 psi (max.)		
Triggered Threshold Bandwidth (Flow Rate)	4 to 10 GPM		
Maximum Surge	18 Feet Per Second (FPS)		
Contact Ratings	Two sets of SPDT (Form C)10.0 A @ 125/250 VAC2.5 A @ 24 VDC		
Compatible Pipe	Steel water pipe, schedule 10 through 40		
Conduit Entrances	Two openings for 1/2" conduit		
Operating Temperature Range	0°C to 49°C (32°F to 120°F)		
Enclosure Rating	NEMA 4 – suitable for indoor/outdoor use		
Service Use	Automatic Sprinkler: NFPA-13National Fire Alarm Code: NFPA-72		
Overall Dimensions	6H×9L×6.5W		
Weight	(see Ordering Information)		
Warranty	3 years		
U.S. Patent Numbers	5,213,205; 4,782,333; 3,845,259		
Ordening Information			

Model	Pipe Size	Hole Size	Weight	
WFD20EXP	2"	1¼″	10.6 lbs.	
WFD25EXP	21/2″	11/4″	10.7 lbs.	
WFD30-2EXP	3"	2"	10.9 lbs.	
WFD35EXP	31/2″	1¼″	11.2 lbs.	
WFD40EXP	4"	2"	11.5 lbs.	
WFD50EXP	5"	2"	12.1 lbs.	
WFD60EXP	6"	2"	12.5 lbs.	
WFD80EXP	8"	2"	13.5 lbs.	
Accessories				
A3008-0	Replacement retard mechanism for all sizes 2″–8″			
A77-01-02	Replacement terminal block			
WFDRK	Replacement hardware kit (contains tamper screws, wrench, and conduit plug)			



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