

**BLAZE**

Water Flow Detectors

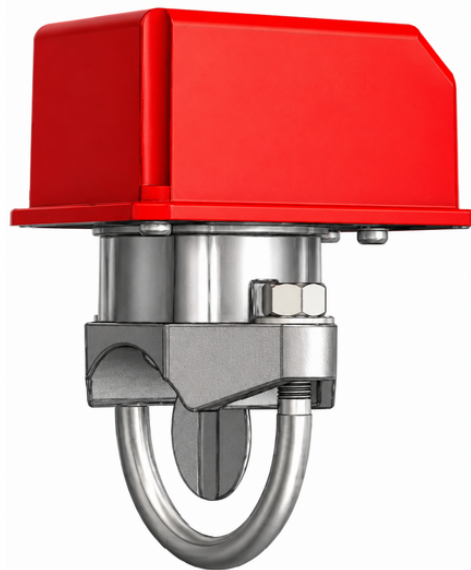
Model : BT-WFD

Description:

The WFD is a vane-type waterflow detector intended for wet sprinkler systems. FM Approved and UL Listed for steel-pipe (schedule 10 through 40) installations, it is offered in sizes from 50 mm to 200 mm. The unit features a non-corrosive vane insert and an enclosure suitable for both indoor and outdoor installation. Fitted with an adjustable pneumatic retard, the device contains two single-pole, double-throw snap-action switches that operate when downstream flow is in range of 15 to 37.5 LPM (4-10 GPM), provided the flow continues long enough to clear the preset retard period.

Specifications :

Maximum Working Pressure	450 psi
Temperature Range	4.5 °C to 49 °C (40 °F to 120 °F)
Maximum Surge	18 FPS (5.5 m/s)
Electrical Ratings	Two sets of SPDT (Form C) 10.1 Amps at 125/250 VAC 2.0 Amps at 24 VDC
Enclosure Rating	NEMA 4- suitable for indoor/outdoor use
Cover Material	Aluminum Die-casting.
Approvals	FM 1042 Approved / UL 346 Listed



Order Code	Pipe Size		Hole Size	
	in	DN	in	mm
BT-WFD-050	2	50	1 1/4	31.8
BT-WFD-065	2 1/2	65	1 1/4	31.8
BT-WFD-080	3	80	2	50.8
BT-WFD-100	4	100	2	50.8
BT-WFD-150	6	150	2	50.8
BT-WFD-200	8	200	2	50.8

Installation :

The Water Flow Detector can be installed on horizontal or vertical pipes. For horizontal pipes, mount the detector on the top of the pipe. Do not install it within 150 mm (6") of a fitting or within 600 mm (24") of a valve or drain.

Drain the system and drill the required hole in the pipe. Clean the inside of the pipe around the hole. Carefully roll the vane and insert it into the pipe without bending it. Ensure the arrow on the saddle points in the direction of water flow.

Note: Do not leave the cover removed for long periods.

Retard Adjustment

Adjust the delay using the retard knob from 0 to MAX (0-90 seconds). The factory setting is Position 2 (approximately 30 seconds). Set the delay to the minimum time needed to prevent false alarms.

Wiring Note:

The Water Flow Detector includes two switches. One may be used for alarm signalling and the other for auxiliary functions.

BLAZETECH SYSTEMS LTD.

contact@blaze-tech.co.uk

Milton Keynes, United Kingdom



www.blaze-tech.co.uk

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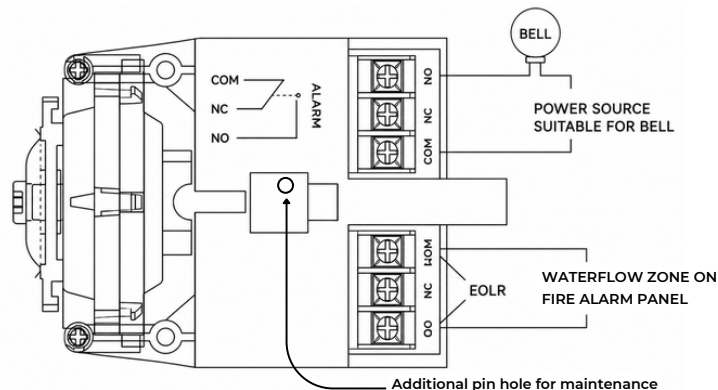
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Field Typical Electrical Connections:

Note:

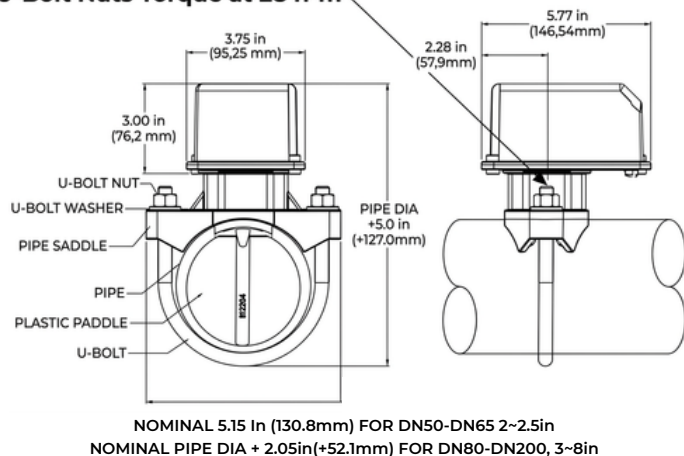
The Water Flow Detector is fitted with two switches. One switch can be used for connection to a central monitoring, proprietary, or remote signalling system. The second switch can be used to operate a local device or visual indicator.



This additional pin hole allows the supplied wrench to be inserted and temporarily disable the device during maintenance, preventing false alarms. When the wrench is inserted, the red cover cannot be reinstalled, providing a visual indication that the device is out of service.

Mounting Dimensions:

U-Bolt Nuts Torque at 28 n-m

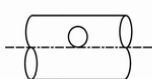


CAUTION

Hole must be drilled perpendicular to the pipe and vertically centered.

Correct

Incorrect



Note: Ensure the saddle gasket is correctly positioned and facing the correct direction before installation.

Inspection and Testing:

The Water Flow Detector and its monitoring system should be inspected and tested in accordance with applicable NFPA standards and local authority requirements. The manufacturer recommends testing at least quarterly, or more frequently if required. Where fitted, always use the inspector's test valve when testing the device. If the system does not provide a means to test the operation of the flow detector, the use of the WFAR Water Flow Detector is not recommended.

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