



National Fire Equipment Ltd.

PIBV2A Supervisory Switch

System Sensor's PIBV2A supervisory switch monitors the open position of post indicator and butterfly control valves.



Features

- NEMA 3R rated enclosure
- Bi-directional actuator
- Easy single side conduit entry
- Adjustable length actuator with breakaway feature
- Built to accommodate up to 12 AWG wire
- Two sets of SPDT contacts enclosed in a durable terminal block
- 100 percent synchronization activates alarm panel and local bell simultaneously
- Operating temperature range -40°C to 49°C (-40°F to 120°F)
- Tamper resistant cover screws

Robust Construction: The PIBV2A's rugged housing is intended for indoor and outdoor use. When installed with the actuator in the vertical position, the PIBV2A is NEMA 3R rated.

Application Flexibility: The PIBV2A features a flexible design, which accommodates post indicator, butterfly, and many other types of wall post, recessed wall post and pressure reducing valves. The PIBV2A's unique bi-directional actuator allows the unit to be installed in either rising or falling flag installations.

Simplified Installation: Installation is made easier with the PIBV2A's single side conduit entrance. By providing a direct conduit pathway to the electrical source, right angle fittings are not required. Installation is further simplified by the PIBV2A's adjustable length actuator with a convenient breakaway feature for installation on shorter valves. This eliminates the need for cutting the shaft.

Reliable Performance: The PIBV2A has 100 percent synchronization which activates the alarm panel and local bell simultaneously. In addition, the switch is designed to operate in temperatures ranging from -40°C to 49°C (-40°F to 120°F). The PIBV2A is 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.

Agency Listings



National Fire
Equipment Ltd.

TORONTO: (905) 761-6355
Toll Free: (800) 267-8508

OTTAWA: (613) 723-6071

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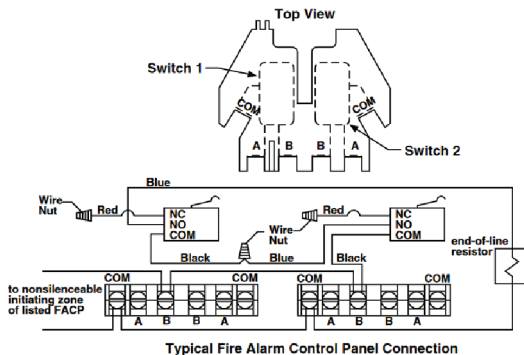
PIBV2A Specifications

Architectural/Engineering Specifications

Model shall be model number PIBV2A Post Indicator Butterfly Valve supervisory switch as manufactured by System Sensor. PIBV2A shall be installed on each valve as designated on the drawings and/or as specified herein. Switches shall be mounted so as not to interfere with the normal operation of the valve and shall be adjusted to operate within two revolutions of the valve control or when the valve flag has moved no more than one-fifth of the distance from its normal position. The mechanism shall be contained in a weatherproof die cast metal housing, which shall provide a side entrance for 1/2" conduit and incorporate a 1/2" NPT nipple for attachment to the valve body. A grounding provision is provided. The switch assembly shall include two switches each with a rated capacity of 10 Amp @ 125/250V AC and 2.5 Amp @ 24V DC. The cover shall contain tamper-resistant screws for which a security wrench will be provided with each switch. PIBV2A shall be ULC listed for indoor or outdoor use.

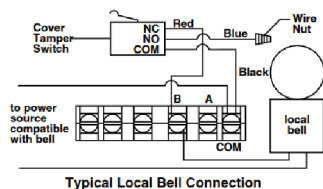
Physical/Operating Specifications			
Overall Switch Dimensions	4 1/4" H x 3 1/2" W x 3 1/4" D (10.8cm x 8.9cm x 8.2cm)	Contact Ratings	Two sets of SPDT (Form C) 10.0 A @ 125/250V AC; 2.5 @ 6/12/24V DC
Shipping Weight	2 lbs. (0.9 kg)	Enclosure Rating	UL indoor/outdoor NEMA 3R when mounted with the actuator vertical
Operating Temperature Range	-40°C to 49°C (-40°F to 120°F)	Cover Tamper Switch	Standard with ULC model Optional for UL model, part no. 546-7000
Maximum Stem Extension	35/32" (8.0 cm)	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
Mounting	1/2" NPT nipple	Warranty	3 years
Conduit Entrances	One single side open for 1/2" conduit	U.S. Patent No.	5,213,205

Electrical Connections for PIBV2A

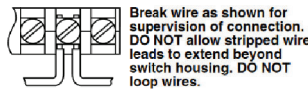


CONTACT RATINGS	
125/250 VAC	10 AMPS
24 VDC	2.5 AMPS

Wire Code:	
Waterflow or Supervisory Switch:	
Com to B = Open Circuit	(Non Alarm Condition)
Com to A = Closed Circuit	
Cover Tamper Switch:	
Black / Blue: Open	(Cover Off)
Black / Red: Closed	

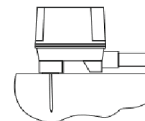


NOTE:
Local bell will activate when cover is removed.

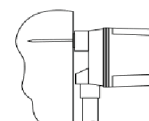


PIBV2A Mounting

The following are examples of acceptable mounting positions:

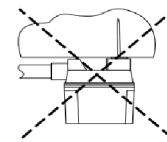


Actuator Vertical (Down)



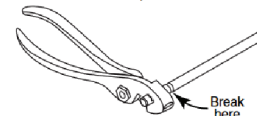
Actuator Horizontal

The following mounting position is not acceptable:



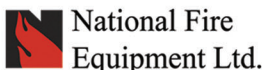
Actuator Vertical (Pointing Up)

Actuating Arm Breakaway Feature:



Ordering Information

Part No.	Description		
7051010	Post Indicator/Butterfly valve supervisory switch		
Accessories			
A3010-00	Replacement hardware kit (wrenches, screw pack)	WFDW	Replacement tamper proof wrench for cover
546-7000	Cover tamper switch kit	HEXW	Replacement hex wrench
S07-66-XX	Tamper screws for cover		



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