



# National Fire Equipment Ltd.

## OSYEXP and PIBVEXP Explosion Proof Supervisory Switch

*System Sensor's OSYEXP and PIBVEXP explosion proof supervisory switches are designed for hazardous locations and to handle extreme conditions.*



### Features

- Designed and approved to operate in hazardous locations
- NEMA 1, 7 and 9 enclosure rating
- Compact, rugged housing
- Ample wiring space
- Captured cover screws
- Single conduit entrance

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

- Class I, Groups C, D, Division 1 and 2
- Class II, Groups E, F, G, Division 1 and 2

**Intended Use.** The OSYEXP is intended for use with outside screw and yoke type valves, while the PIBVEXP monitors the open position of post indicator and butterfly type valves.

**Robust Construction.** The OSYEXP and PIBVEXP switches are contained in a compact and rugged NEMA 1, 7 and 9 rated enclosure. The enclosure operates across a wide temperature range, from -40°C to 71°C (-40°F to 160°F).

**Simplified Operation.** The OSYEXP and PIBVEXP covers are secured with four captured screws to prevent screw misplacement while the cover is removed. A single tapped conduit entrance and ample wiring space provide quick and easy electrical connection.

### Agency Listings



National Fire  
Equipment Ltd.

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

OTTAWA: (613) 723-6071

VANCOUVER: (604) 420-1131  
Toll Free: (800)-667-2138

BURNABY: (604)-299-4498

EDMONTON: (780) 455-3870  
Toll Free: (888)-891-1008

CALGARY: (403) 236-5661

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

MISSISSAUGA: (905) 565-1385

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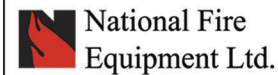
## OSYEXP, PIBVEXP Specifications

### Architectural/Engineering Specifications

Model shall be an OSYEXP or PIBVEXP as manufactured by System Sensor. The OSYEXP and PIBVEXP shall be installed on each valve as designated on the drawings and/or 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 NEMA 1, 7 and 9 rated metal enclosure, 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 shall be provided. The switch assembly shall include one SPDT (Form C) switch with a rated capacity of 15 A, 125/250/480 VAC; 1/8 hp, 125 VAC; 1/4 hp, 250 VAC; 1/2 A, 125 VDC; 1/4 A, 250 VDC. The cover shall contain captive screws. The OSYEXP's and PIBVEXP's switch shall be Underwriters Laboratories listed for indoor use and CSA certified.

Physical/Operating Specifications	
Overall Dimensions, Installed	OSYEXP: 7'L x 3.125'D x 4.875'H PIBVEXP: 3.75'L x 3.25'D x 4.5'H
Shipping Weight	OSYEXP: 1.25 lbs. PIBVEXP: 1.75 lbs.
Operating Temperature Range	-40°C to 71°C (-40°F to 160°F)
Enclosure Rating	NEMA 1, 7 and 9 – suitable for indoor applications
Conduit Entrances	One tapped opening for 1/2" conduit
Pressure Connection	1/2" NPT male brass fitting
Actuating Lever Extension Length for OSYEXP (max.)	2" from nipple
Hazardous Locations Classifications	Class I, Groups C, D Class II, Groups E, F, G
Contact Ratings	One SPDT (Form C) switch: 15 A, 125/250/480 VAC 1/8 hp, 125 VAC 1/4 hp, 250 VAC 1/2 A, 125 VDC 1/4 A, 250 VDC
Service Use	Automatic Sprinkler: NFPA-13 One or two family dwelling: NFPA-13D Residential occupancy up to four stories: NFPA-13R National Fire Alarm Code: NFPA-72
Warranty	3 years

Ordering Information	
Part No.	Description
OSYEXP	Explosion proof OS&Y supervisory switch
PIBVEXP	Explosion proof PIBV supervisory switch



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