

802X

Watertight or Hazardous Location Switches



Specifications

Enclosure Rating	NEMA 7 and 9/Class I, Groups B, C and D or Class II, Groups E, F and G or Class III; NEMA 4/nonhazardous locations
Certifications	UL Listed and CSA Certified
Ambient Temperature [C (F)] [Ⓢ]	Push type with spring return and all lever types except neutral position: -46...+121° (-50...+250°) Wobble stick and cat whisker devices: -29...+54° (-20...+130°) Side push maintained: -46...+121° (-50...+250°) Neutral position: -18...+121° (0...+250°).

AC Contact Rating (Maximum per Pole, 50 or 60Hz, same polarity)

NEMA Rating Designation	Max Voltage	A		Continuous Carrying Current	VA	
		Make	Break		Make	Break
A600	120	60	6.00	10	7200	720
	240	30	3.00	10	7200	720
	480	15	1.50	10	7200	720
	600	12	1.20	10	7200	720

DC Contact Rating (Maximum per Pole)

NEMA Rating Designation	Max Voltage	A		Continuous Carrying Current	VA	
		Make	Break		Make	Break
P150	125	1.1		5	138	

[Ⓢ] Temperature ranges below 0°C (+32°F) are based on the absence of freezing moisture or water.

Description

Bulletin 802X NEMA Type 7 and 9 limit switches are designed for use in atmospheres and locations defined as Class I, Groups B, C or D, Division 1, Class II, Groups E, F or G, or Class III in the National Electrical Code. Typical applications for this switch include refineries, distilleries, grain elevators and flour mills. For Class I, Division 2 locations, a Bulletin 802R limit switch may also be used (see page 5-34).

Bulletin 802X NEMA Type 4 watertight limit switches are designed for use indoors in locations where their internal parts require protection against seepage of water and splashing, falling or hose-directed water within the limits of the NEMA specified tests for Type 4 watertight enclosures. They are not sleet- (ice-) proof. Typical applications are dairies and food processing plants.

A wide variety of operating heads and operating levers are available. Operating heads can be mounted in four positions, 90° apart. The enclosure base has two through holes for front mounting, two tapped holes for rear mounting and two tapped holes for side mounting.

Features

- Multiple operator styles: side rotary, wobble stick, cat whisker, adjustable top push and top or side push with or without rollers

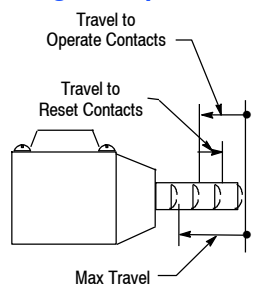
Watertight or Hazardous Location

- Lever Type • Spring Return page 5-75
Standard and Neutral Position Models
- Lever Type • page 5-76
Maintained Contact
- Push Type • Spring Return . page 5-77
- Push Type • page 5-79
Maintained Contact
- Wobble Stick and page 5-80
Cat Whisker • Spring Return

802X Push Type • Spring Return

Watertight or Hazardous Location Switches

Range of Operation

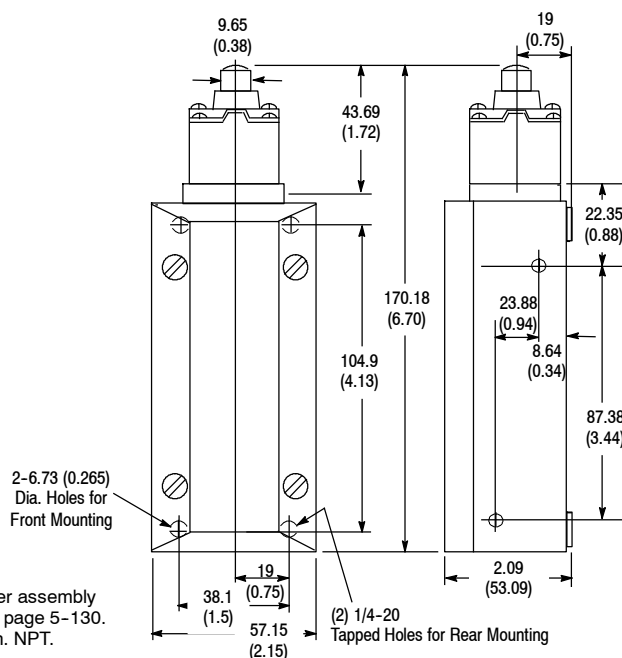


Top Push Rod Adjustable Top Push Rod Side Push Rod Top Push Roller Side Push Roller

Product Selection

Operator Type	Contact Operation		Force to Operate (Max)	Travel to Operate Contacts (Max)	Max Travel	Travel to Reset Contacts (Max)	Cat. No.	
	Normal	Operated					NEMA 4	NEMA 7 and 9
Top Push Rod			15.6 N (3.5 lbs)	1.9 mm (0.075 in.)	5.1 mm (0.202 in.)	0.8 mm (0.030 in.)	802X-B4	802X-B7
Adjustable Top Push Rod			20.0 N (4.5 lbs)	3.2 mm (0.125 in.)	5.5 mm (0.218 in.)	1.5 mm (0.057 in.)	802X-BA4	802X-BA7
Side Push Rod			15.6 N (3.5 lbs)	1.9 mm (0.075 in.)	5.1 mm (0.202 in.)	0.8 mm (0.030 in.)	802X-D4	802X-D7
Top Push Roller			20.0 N (4.5 lbs)	3.2 mm (0.125 in.)	5.5 mm (0.218 in.)	1.5 mm (0.057 in.)	802X-K4	802X-K7
Side Push Vertical Roller			15.6 N (3.5 lbs)	1.9 mm (0.075 in.)	5.1 mm (0.202 in.)	0.8 mm (0.030 in.)	802X-K14	802X-K17
Side Push Horizontal Roller			20.0 N (4.5 lbs)	3.2 mm (0.125 in.)	5.5 mm (0.218 in.)	1.5 mm (0.057 in.)	802X-K14	802X-K17

Approximate Dimensions [mm (in.)]



Note: For operating head and lever assembly dimensions not shown, see page 5-130. Conduit pipe opening 1/2 in. NPT.

Approximate Shipping Wt.
0.9 kg (2 lbs)

Mounting Hole Dimensions

2—0.265 Dia. through hole with 0.500 Dia. x 0.25in deep C'Bore for front mounting.

2—1/4-20 x 0.56in deep Tapped holes for rear mounting.

2—1/4-20 x 0.5in deep Tapped holes for side mounting.