Non Plug-In Switches



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Non Plug-In Switches

Product Description

10316 Type L non plug-in limit switches by Eaton's electrical sector are sold as complete assembled devices only with a wide array of operating head configurations. All switches are single-pole 1NO-1NC.

Features

- Side and top rotary, side and top push or wobble operation
- CW, CCW or CW and CCW operating modes are field convertible
- Double break-make snap action contacts, same polarity each pole
- Captive saddle clamp terminals accept up to #12 wire
- Head can be mounted in any of four discrete positions, intervals of 90°

Standards and Certifications

- UL Listed
- CSA Certified





A DANGER

THIS SENSOR IS NOT A SAFETY DEVICE AND IS NOT INTENDED TO BE USED AS A **SAFETY DEVICE. This sensor** is designed only to detect and read certain data in an electronic manner and perform no use apart from that, specifically no safetyrelated use. This sensor product does not include self-checking redundant circuitry, and the failure of this sensor product could cause either an energized or de-energized output condition, which could result in death, serious bodily injury, or property damage.

For the most current information on this product, visit our Web site: www.eaton.com

Product Selection

Complete Assembled Switches Single-Pole 1NO-1NC

	Operating Data—N	Nominal				
Operating Characteristics	Travel to Operate Contacts	Travel to Reset Contacts	Total Travel	Force to Operate Contacts	Minimum Return Force	Catalog Number
Side Rotary Operated ①)					
Standard	10°	4°	50°	3 in-lbs	4.5 in-oz	10316H187
Top Rotary Operated ①						
Clockwise	20°	12°	140°	1.1 in-lbs	3 in-oz	10316H700
Counterclockwise	20°	12°	140°	1.1 in-lbs	3 in-oz	10316H701
Side Push Operated						
Adjustable pushbutton	0.07 in (1.8 mm)	0.03 in (0.8 mm)	0.29 in (7.4 mm)	4 lbs	8 oz	10316H621
Vertical roller— 0.44 in (11.2 mm) dia.	0.07 in (1.8 mm)	0.03 in (0.8 mm)	0.29 in (7.4 mm)	4 lbs	8 oz	10316H284
Horizontal roller— 0.44 in (11.2 mm) dia.	0.07 in (1.8 mm)	0.03 in (0.8 mm)	0.29 in (7.4 mm)	4 lbs	8 oz	10316H285
Top Push Operated						
Pushbutton	0.04 in (1.0 mm)	0.02 in (0.5 mm)	0.28 in (7.1 mm)	4 lbs	8 oz	10316H281
Roller—0.44 in (11.2 mm) dia.	0.04 in (1.0 mm)	0.02 in (0.5 mm)	0.28 in (7.1 mm)	4 lbs	8 oz	10316H283
Roller—0.75 in (19.1 mm) dia.	0.04 in (1.0 mm)	0.02 in (0.5 mm)	0.28 in (7.1 mm)	4 lbs	8 oz	10316H577
Wobble Operated ②						
Spring	10°	6°	15°	1 in-lb	2.4 in-oz	10316H299
Nylon rod	10°	6°	15°	2 in-lbs	2.4 in-oz	10316H296
Wire	10°	6°	15°	2 in-lbs	2.4 in-oz	10316H484
Cat whisker	15°	5°	30°	0.63 in-lb	1.7 in-oz	10316H341

Note

- ① For operating levers, see Page V8-T2-80.
- ② For wobble operators, see Page V8-T2-80.

Technical Data and Specifications

Non Plug-In Switches

Description	Specification
Contact rating	NEMA A600, R300 double break-make snap action contacts
Electrical life	500,000 operations minimum
Mechanical life	5,000,000 operations minimum at full load
Conduit entrance	0.5 in (12.7 mm) NPT
Material of construction	Zinc die cast
Enclosure rating	NEMA 1, 4, 13
Ambient operating temperature	−20° to 200°F (−29° to 93°C) ①
Approximate shipping weight	2 lbs

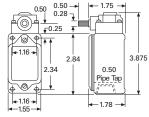
Electrical Data - Maximum Contact Ratings per Pole ^②

Current, Amperes				voits, Amp	eres		
AC Volts	Make	Break	Cont. Thermal Ratings	Make	Break	DC Volts	DC Current, Ampere
NEMA A600, R	300 Rating						
120	60	6	10	7200	720	125	0.22
240	30	3	10	7200	720	250	0.11
480	15	1.5	10	7200	720	250	0.11
600	12	1.2	10	7200	720	250	0.11

Dimensions

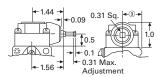
Approximate Dimensions in Inches or Inches (mm)

Side Rotary Operated Head with Switch

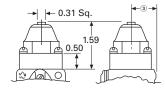


(2) 0.203 Dia. Holes for Front Mtg. (2) 10-32 Tapped Holes 0.375 Deep for Rear Mtg.

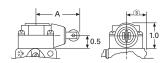
Side Pushbutton, Adjustable



Top Pushbutton



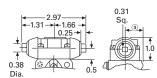
Side Push, Vertical Roller



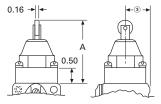
Dimension "A"

With 0.44 (11.2) dia. roller	1.78 (45.2)
With 0.75 (19.1) dia. roller	2.09 (53.1)

Side Push Maintained Contact

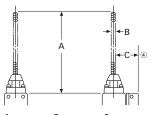


Top Push Roller



Dimension "A"	
With 0.44 (11.2) dia. roller	2.03 (51.6)
Mith 0.7E /10.1) dia rollar	2 24 (E0 4)

Wobble Operators



Α	В	C		
Wobble S	pring			
5.44 (138.2)	0.31 (7.9)	0.81 (20.6)		
Wire Wob	ble Stick			
12.5 (317.5)	0.08 (2.0)	0.81 (20.6)		
Nylon Wobble Stick				
4.5 (114.3)	0.25 (6.4)	0.81 (20.6)		

Notes

- ① Ranges below 32°F (0°C) are based on absence of freezing moisture or water.
- Contacts must be same polarity when both circuits are used.
- ③ Dimension from centerline of head to mounting surface is 0.78 in (20 mm).
- 4 Center to mounting surface.