

## 802T Safety Limit Switches

### Direct Opening Action Position Interlock Switches



### Specifications

<b>Enclosure Rating</b>	NEMA 4, 6P, 12, 13 and IP67
<b>Pollution Degree</b>	3
<b>Certifications</b>	cULus Listed, TÜV, and CE Marked for all applicable directives
<b>Standards</b>	EN954-1, ISO13849-1, IEC/EN60204-1, NFPA79, EN1088, ISO14119, IEC/EN60947-5-1, ANSI B11.19, AS4024-1
<b>Category</b>	Cat. 1 Device per EN954-1 Dual channel interlocks suitable for Cat. 3 or 4 systems
<b>Operating Temperature [C (F)]</b>	-18...+110° (0...+230°)
<b>Cable Versions Temperature [C (F)]</b>	-18...60° (0...140°)
<b>Storage Temperature [C (F)]</b>	-40...121° (-40...250°)

### Description

Bulletin 802T direct opening action limit switches have been designed for use in control reliable applications and safety applications per ISO 14119. These limit switches utilize the same mounting dimensions as other NEMA style limit switches. The rugged metal construction and plug-in body are designed for use in harsh industrial environments.

Direct opening action assures that the normally closed contacts open when the limit switch is actuated. This opening will occur even in the event of a contact weld condition, up to 10 Newtons.

#### AC Contact Rating (Maximum per Pole, 50 or 60Hz, 2 Circuits)

NEMA Rating Designation	Max Voltage	A		Continuous Carrying Current	VA	
		Make	Break		Make	Break
A600 AC-15	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

#### AC Contact Rating (Maximum per Pole, 50 or 60Hz, 4 Circuits)

NEMA Rating Designation	Max Voltage	A		Continuous Carrying Current	VA	
		Make	Break		Make	Break
A300 AC-15	120	60	6.00	10	7200	720
	240	30	3.00	10	7200	720

#### DC Contact Rating (Maximum per Pole)

NEMA Rating Designation	Max Voltage	A		Continuous Carrying Current	VA	
		Make	Break		Make	Break
Q300 DC 13	250	0.27	0.27	2.5	69	69
	125	0.55	0.55	2.5	69	69

#### Low Voltage DC

24 V DC @ 1.1 Amps resistive load

### Typical Applications

- Machine guards
- Access gates and doors
- Cranes or hoists
- Transfer stations
- Indexing tables
- Robotic cells

### Direct Opening Action

- Lever Type • Spring Return page 5-110
- Top Push Roller •  
Spring Return ..... page 5-110
- Side Push Vertical Roller •  
Spring Return ..... page 5-110
- Side Push Horizontal Roller •  
Spring Return ..... page 5-110
- Dimensions ..... page 5-111
- Modifications ..... page 5-112

### ATTENTION



To ensure that the normally closed (safety) contacts open, the limit switch actuator must be displaced beyond the point of Direct Opening Action (see specifications).

### Features

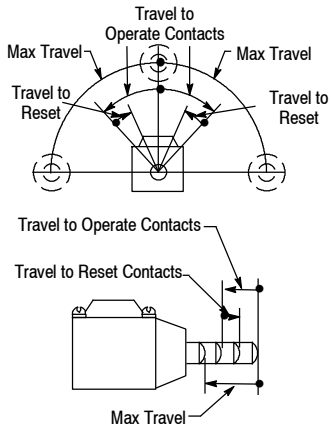
- Direct opening action
- Snap acting contacts
- Rugged metal construction
- Long life and reliability
- Plug-in design
- NEMA 6P/IP67 sealing
- Equal length mounting back base

# Limit Switches

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#### Range of Operation



#### Selection Guide

Number of Circuits	Lever Movement vs. Contact Operation	Torque/Force to Operate (Max)	Travel to Operate (Max)	Torque/Force to Operate Direct Opening Action (Min)	Travel to Operate Direct Opening Action (Min)	Max Travel	Travel to Reset Contacts (Max)	Cat. No.
<b>Lever Type • Spring Return</b>								
2	Clockwise or Counter Clockwise	1   2 3   4	0.45 N•m (4.0 lb•in)	13°	0.90 N•m (8.0 lb•in)	25°	90°	7°
4		1   2 3   4 5   6 7   8						7°
<b>Top Push Roller • Spring Return</b>								
2	<b>Normal</b> 1   2 3   4	<b>Operated</b> 1   2 3   4	28.47 N•m (6.4 lb•ft)	1.17 mm (0.046 in.)	66.72 N (15.0 lb•in)	2.29 mm (0.090 in.)	5.99 mm (0.236 in.)	0.64 mm (0.025 in.)
4	1   2 3   4 5   6 7   8	1   2 3   4 5   6 7   8						0.64 mm (0.025 in.)
<b>Side Push Vertical Roller • Spring Return</b>								
2	<b>Normal</b> 1   2 3   4	<b>Operated</b> 1   2 3   4	24.5 N•m (5.5 lb•ft)	2.08 mm (0.082 in.)	53.4 N (12.0 lb•ft)	4.19 mm (0.165 in.)	5.74 mm (0.226 in.)	1.14 mm (0.045 in.)
4	1   2 3   4 5   6 7   8	1   2 3   4 5   6 7   8						1.14 mm (0.045 in.)
<b>Side Push Horizontal Roller • Spring Return</b>								
2	<b>Normal</b> 1   2 3   4	<b>Operated</b> 1   2 3   4	24.5 N•m (5.5 lb•ft)	2.08 mm (0.082 in.)	53.4 N (12.0 lb•ft)	4.19 mm (0.165 in.)	5.74 mm (0.226 in.)	1.14 mm (0.045 in.)
4	1   2 3   4 5   6 7   8	1   2 3   4 5   6 7   8						1.14 mm (0.045 in.)

Modifications and Accessories—See page 5-112.