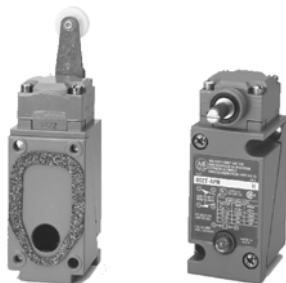


802T Modifications and Accessories

Plug-in Style Oiltight Switches



Manifold Mount

Indicating Light

Manifold Mount

All two-circuit plug-in limit switches can be supplied with a special terminal base which permits mounting the switch manifold style on a machine base, panel or raceway. As shown above, this base is supplied with a wiring hole and gasket on the back.

To order a manifold mount switch, add the letter **U** to the listed cat. no.. Example: Cat. No. 802T-AP becomes Cat. No. 802T-APU.

Indicating Light

Bulletin 802T two-circuit plug-in limit switches (except for the cat whisker, wobble stick, and manifold mount devices) can be supplied with an indicating light. To order add the letter **N** for 120V AC, 50/60 Hz or **N5** for 240V AC 50/60 Hz. Example: Cat. No. 802T-AP becomes Cat. No. 802T-APN.

The indicating light is internally connected to two isolated terminals in the base assembly allowing the user to wire the light to either the N.O. or the N.C. contact. Switches with an indicating light have a contact rating of NEMA A300.

Where an indicator light and a pre-wired 5-pin mini connector are used, the light is pre-wired to the N.C. contact with J1 wiring and to the N.O. contact with J9 wiring. Indicating lights are not available on 4-circuit 802T switches.

Fluorinated Elastomer Seals

To order limit switches with all fluorinated elastomer seals, add the letter **V** to the end of the listed cat. no. Not available on manifold mount, low operating torque, low temperature or limit switches with an indicating light.

To order lever type limit switches with the fluorinated elastomer shaft seal only, add **V1** to the end of the listed cat. no.

Base Assembly

The limit switch base, including the terminal block, is available as a separate unit per the following table.

	Cat. No.
2-Circuit Base	802T-X7
2-Circuit Base with Indicating Light	802T-X7 N
2-Circuit Manifold Mount Base	802T-X7U
4-Circuit Base	802T-X8

Low Temperature Operation

Plug-in limit switches are designed to operate in an ambient temperature range of -18...+110°C (0...+230°F), -18...+54°C (0...+130°F) for wobble stick and cat whisker. Special limit switches modified for low temperature operation at -40...+110°C (-40...+230°F) are available. Temperature ranges below 0°C (+32°F) are based on absence of freezing moisture or water. To order, add the letter **E** to cat. no. **Not available** on wobble stick, cat whisker or pre-wired cable switches; standard on low torque and maintained devices.

Pre-Wired Cable

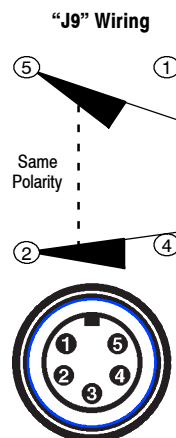
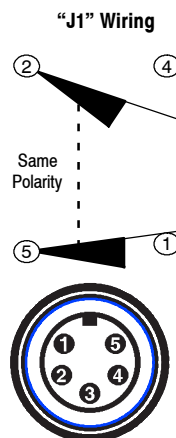
To order factory installed pre-wired type “**STOOW-A**” cable for 2-circuit (5-conductor) and 4-circuit (9-conductor) switches, add the suffix **Y** plus the number of feet required. Example: To order an 802T-AP with 2.4 m (5 ft) of cable the cat. no. would become 802T-APY5.

The standard cable length is 2.4 m (5 ft). Extended cable lengths are available in multiples of 1.22 m (4 ft) only.

Mini-Type Receptacles

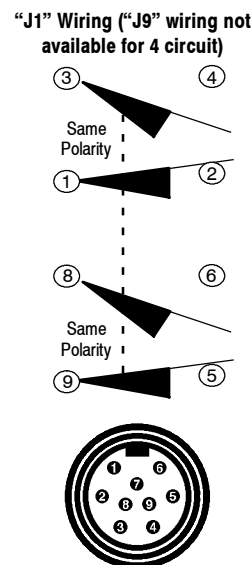
To order a bulletin 802T pre-wired limit switch with a five-pin (2 circuit) or nine pin (4 circuit) mini connector, add the suffix **J1** or **J9** depending on desired wiring (J9 wiring not available for 4-circuit models).

5-Pin Mini-Type Receptacle



An appropriate female connector with cable (889N-F5AFC-6F) is available on page 8-4 in Connection Systems.

9-Pin Mini-Type Receptacle



An appropriate female connector with cable (889N-F9AF-2) is available on page 8-14 in Connection Systems.

802T

NonPlug-in Style Oiltight Switches



Description

Bulletin 802T limit switches are ideal for applications in which heavy duty pilot ratings, small size, a high degree of versatility and a rugged NEMA Type 13 oiltight construction are desirable. An important factor in the automation of industry, these limit switches are being applied extensively on conveyor systems, transfer machines, automatic turret lathes, milling and boring machines, radial drills, and many other types of modern, high speed production equipment.

A wide variety of operating heads and operating levers are available. Operating heads can be mounted in four positions, 90° apart.

Features

- Side rotary, wobble stick, cat whisker, adjustable top and top or side push styles, with or without rollers
- Rugged construction
- Proven reliability

Specifications

Enclosure Rating	NEMA 13, IP54
Pollution Degree	3
Certifications	UL Listed, CSA Certified and CE Marked for applicable directives
Ambient Temperature [C (F)] [Ⓢ]	Nonplug-in limit switches are designed to operate in an ambient temperature range of -18...+54° (0...+130°).

AC Contact Rating (Maximum per Pole, 50 or 60 Hz, Same Polarity)

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

DC Contact Rating (Maximum per Pole, Same Polarity)

Voltage Range	Current Rating
115-125	0.4 A
230-250	0.2 A
550-600	0.1 A

[Ⓢ] Temperature range below 0°C (+32°F) is based on the absence of freezing moisture or water. See page 5-73 for Extended Temperature Option.

NonPlug-in Style

2-Circuit

Lever Type • Spring Return page 5-55
Standard and Low Operating Torque Models

Lever Type with DeviceNet page 10-15
Output • Spring Return

Lever Type • Maintained ... page 5-56
Contact and Neutral Position

Lever Type with Time ... page 5-57
Delay • Spring Return (1-Circuit)

Push Type • Spring Return . page 5-59
and Maintained Contact

Wobble Stick and Cat ... page 5-61
Whisker • Spring Return

4-Circuit Vertical Construction

Lever Type • Spring ... page 5-62
Return & Maintained Contact

Push Type • Spring ... page 5-63
Return & Maintained Contact

Wobble Stick and Cat ... page 5-65
Whisker • Spring Return

4-Circuit Horizontal Construction

Lever Type • Spring Return page 5-66

Lever Type • Maintained ... page 5-67
Contact

Push Type • Spring ... page 5-68
Return & Maintained Contact

Wobble Stick & Cat ... page 5-70
Whisker • Spring Return

Dual Switch Lever and ... page 5-71
Push Types • Spring Return

Air-Operated • Spring Return page 5-72

Modifications and ... page 5-73
Accessories

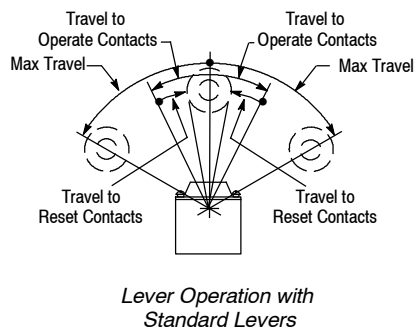
Operating Levers

Lever Selection ... page 5-130

802T 2-Circuit Lever Type • Spring Return

NonPlug-in Style Oiltight Switches

Range of Operation

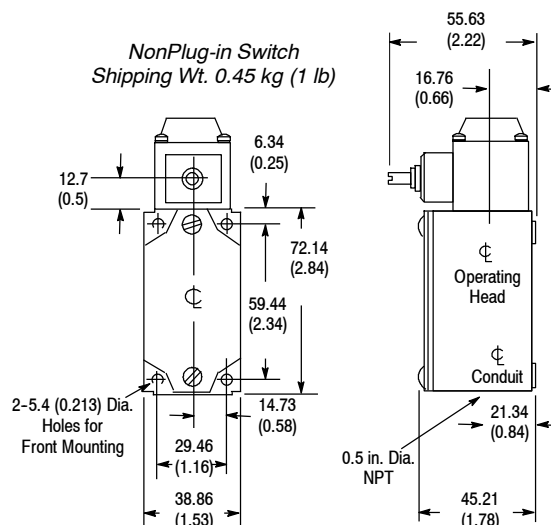


802T-A



802T-ALW5

Approximate Dimensions [mm (in.)]



Product Selection—Standard and Low Operating Torque Models

Lever Movement vs. Contact Operation		Torque to Operate (Max.)	Travel to Operate Contacts (Max.)	Max Travel	Travel to Reset Contacts (Max.)	Cat. No.
Clockwise or Counterclockwise		0.34 N•m (3 lb•in)	16.5°	43°	8°	802T-A
		0.51 N•m (4.5 lb•in)	6°	50°	3°	802T-H
Clockwise		0.40 N•m (3.5 lb•in)	16.5°	43°	8°	802T-A1
		0.51 N•m (4.5 lb•in)	6.5°	50°	3°	802T-H1
Counterclockwise		0.40 N•m (3.5 lb•in)	16.5°	43°	8°	802T-A2
		0.51 N•m (4.5 lb•in)	6.5°	50°	3°	802T-H2
Clockwise Lever cannot move counterclockwise		0.45 N•m (4 lb•in)	20°	91°	11°	802T-L1
Counterclockwise Lever cannot move clockwise						802T-L2
Clockwise or Counterclockwise		0.09 N•m (12.5 oz•in)	22°	43°	12°	802T-ALW5ⓘ
Clockwise						802T-AL1W5ⓘ
Counterclockwise						802T-AL2W5ⓘ

ⓘ These low operating torque limit switches can only be supplied with cat. no. 802T-W5 rod lever. The rod can easily be formed to meet special application requirements.

Levers—See page 5-130 for a complete listing of operating levers.

Modifications and Accessories—See page 5-73.