General Specifications

Electrical Capacity (Resistive Load)

10A @ 125V AC or 6A @ 250V AC or 10A @ 30V DC

Other Ratings

Contact Resistance: 10 milliohms maximum for solder lug & screw terminal models;

30 milliohms maximum for wire lead terminal models

Insulation Resistance: 200 megohms minimum @ 500V DC **Dielectric Strength:** 1,500V AC minimum for 1 minute minimum

Mechanical Life: 50,000 operations minimum for On-None-Off, On-None-On, & On-Off-On models

30,000 operations minimum for all other models

Electrical Life: 15,000 operations minimum

Angle of Throw: 24°

Materials & Finishes

Toggle: Brass with chrome plating

Bushing & Outer Case: Fiberglass reinforced polyamide (UL94V-0)

Inner Case:

Nitrile butadiene rubber for On-None-Off, On-None-On, & On-Off-On models; **Inner Sealing Ring:**

silicone rubber for all other models

Natural rubber **Outer Sealing Ring:**

Movable Contactor: Copper with silver plating

Movable Contacts: Silver alloy plus copper with silver plating Stationary Contacts: Silver alloy plus copper with silver plating

> Terminals: Copper with tin plating for solder lug & wire lead; brass with silver plating for screw lug

Wire Lead Covers: Heat resistant polyvinyl chloride (Leads are AWG 16)

Environmental Data

-30°C through +70°C (-22°F through +158°F) **Operating Temp Range:**

90 ~ 95% humidity for 96 hours @ 40°C (104°F) **Humidity:**

Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range

& returning in 1 minute; 3 right angled directions for 2 hours

Shock: 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction) IP67 of IEC60529, dust tight & water protected during temporary immersion for all models; Front Panel Seal:

optional toggle boot AT401 for additional protection (details at end of WT section)

Behind Panel Seal: IP60 of IEC60529, dust tight but not water protected

for solder lug & screw terminal models

IP67 of IEC60529, dust tight & water protected during temporary immersion

for wire lead models

Installation

Soldering Time & Temp: Manual Soldering: See Profile A in Supplement section.

Mounting Torque: 1.47Nm (13 lb•in)

Standards & Certifications

UL94V-0 outer case

UL AWM 1015 Recognized at Flammability VW-1;

Temperature Range −20°C ~ +105°C; Maximum Load 600V; AWG 16. CSA TEW 105 Certified at Temperature Range -20°C ~ +105°C;

Maximum Load 600V

Series WT

Distinctive Characteristics

Sealing for wire lead models meets IP67 of IEC60529 Standards at front and back panel.

Sealing for solder lug or screw lug models meets IP67 at front panel and IP60 at back panel.

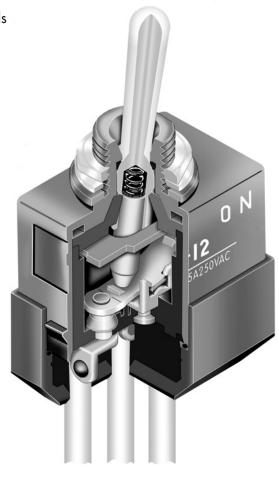
Single unit construction of bushing and case gives added protection from environmental elements.

Epoxy sealed base covered by outer case doubles protection from dust and water (not operable under water or oil).

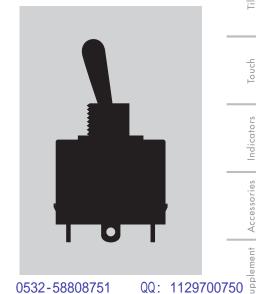
Specially designed contact mechanism that breaks light contact welds for circuits 11, 12, 21 and 22.

Interlocked movable contact mechanism provides highly reliable switching by minimizing contact bounce over center contact.

Heat resistant resin used for outer housing meets UL94V-0 flammability standard and provides high arc and tracking resistance.



Actual Size



Keylocks Programmable Illuminated PB Pushbuttons

Slides

Accessories | Indicators

Series WT

Environmentally Sealed Toggles



Keylocks Programmable Illuminated PB Pushbuttons

 $\stackrel{\pm}{\equiv}$

P	oles
	SPST
	SPDT
	DPST DPDT

Terminals						
S	Solder Lug*					
T	Screw Lug					
L	Wire Lead					

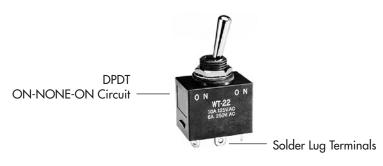
* Wire harness & cable assemblies offered only in Americas

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

) = Momentary

TYPICAL SWITCH ORDERING EXAMPLE

WT22S



POLES & CIRCUITS										
		Toggle Position () = Momentary			Connected Terminals			Throw & Schematics		
Pole	Model	Down	Center	Up	Down	Center	Up	Note:	Terminal numbers are not actually on wire lead models.	
SP	WT11	ON	NONE	OFF	1a-1b	OPEN	OPEN	SPST	• 1a (COM) • 1b	
SP	WT12 WT13 WT15 WT18 WT19	ON ON ON (ON)	NONE OFF NONE OFF	0 Z Z Z (O Z) (O Z) (O Z)	1-1b	OPEN	1-1a	SPDT	1 (COM)	
DP	WT21	ON	NONE	OFF	1a-1b 2a-2b	OPEN	OPEN	DPST	1a (COM) 2a • 2b	
DP \理商	WT22 WT23 WT25 WT28 WT29	0X 0X 0X (0X)	NONE OFF NONE OFF	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	1-1b 2-2b	OPEN	1-1a 2-2a	DPDT	1 (COM) 2 • 2b 1a • 1b 2a • 2b 12-58808751 QQ: 112970	

A Loggles

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

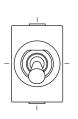
Slides

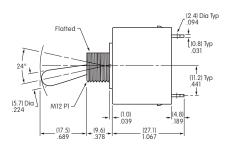
Tactiles

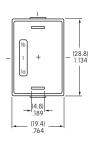
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Touch

Indicators

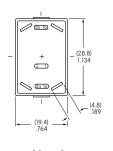






Single Pole

TYPICAL SWITCH DIMENSIONS



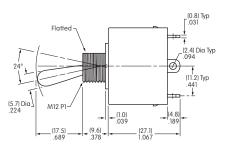


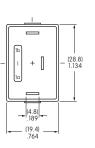
Double Pole

WT11S

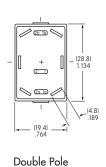
Double Throw • Solder Lug







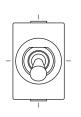
Single Pole

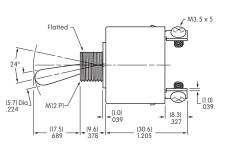


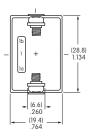


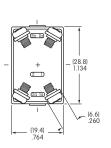
WT22S

Single Throw • Screw Lug











Single Pole

Double Pole

Accessories

Touch

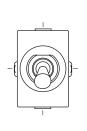
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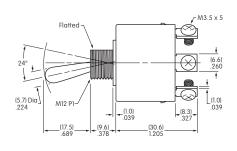
nkk代理商 www.yusungs.com

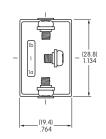
TYPICAL SWITCH DIMENSIONS

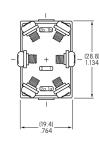
Double Throw • Screw Lug











Single Pole

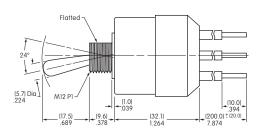
Double Pole

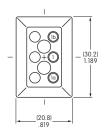
WT22T

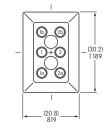
Single & Double Pole • Wire Lead











Single Pole

Double Pole

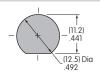
WT22L

STANDARD WIRE COLOR SCHEME

Wire leads are covered with heat resistant vinyl in accordance to UL 1015 and CSA TEW 105 Standards for Appliance Wiring Material (AWM).

	Terminal Numbers & Wire Colors									
	1a	1	1b	2a	2	2b				
WT11	Black		White							
WT12-19	White	Black	Red							
WT21	Black		White	Blue		Yellow				
WT22-29	White	Black	Red	Yellow	Blue	Green				

PANEL CUTOUT & THICKNESS



Maximum Effective Panel Thickness

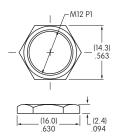
With Standard Hardware: .157" (4.0mm)

With optional Boot Assembly AT401A/H/S: .063" (1.6mm) With optional Boot Assembly AT4181: .083" (2.1mm)

STANDARD HARDWARE

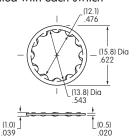
AT503M Hex Face Nut

Material: Brass with Chrome Plating 1 supplied with each switch



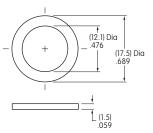
AT508 Internal Tooth Lockwasher

Material: Steel with Zinc/Chromate 1 supplied with each switch



AT401P O-ring

Material: Nitrile butadiene rubber 1 supplied with each switch



OPTIONAL ACCESSORIES

Boot Assemblies for High Particulate Contamination Applications

AT401A for Oil Resistance

Boot Material: Black nitrile butadiene rubber

Hex Nut Material & Finish:

Nickel plated brass

O-ring Material: Nitrile butadiene rubber

AT401H for Dust & Ozone Resistance

Boot Material:

Gray ethylene propylene rubber

Hex Nut Material & Finish:

Nickel plated brass

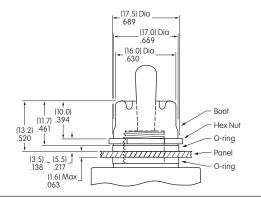
O-ring Material: Nitrile butadiene rubber

AT401S for Retention of Flexibility, Resilience & Tensile Strength Over Wide Temperature Range

Boot Material: Black silicone rubber

Hex Nut Material & Finish: Nickel plated brass

O-ring Material: Nitrile butadiene rubber





AT4181 Splashproof Boot Assembly

Boot Material: Black Silicon rubber

Nut Material & Finish: Nickel plated brass

O-ring Material: Nitrile butadiene rubber

(14.8)(13.8) Dia (21.5) Dia (24.3) (2.1)

Note: When using boot assemblies

AT401A/H/S or AT4181, also use o-ring AT401P from the standard hardware supplied. nkk代理商 www.yusungs.com are not used with these boot assemblies. yxaut 0@126.com

