

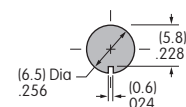
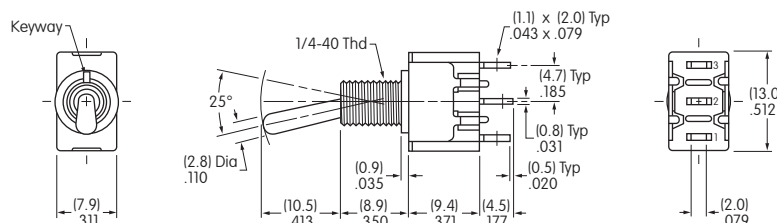
Miniature Toggle with Splashproof Boot

MN13SS1W01-AT428H

Bushing Mount • Single Pole • Solder Lug

Dimensions in mm/inch

PANEL CUTOUT



Panel Thickness with Standard Hardware & Boot Installed:
0.118" (3.0mm) Maximum

BASE SWITCH

Part Number
MN13SS1W01

AT428H Splashproof Boot



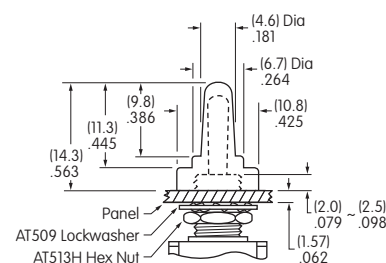
Color: Black
Material: Silicone rubber

Sealing: IP65 rated at
front panel

SPLASHPROOF BOOT

Installation Instructions

1. Insert switch bushing from back of panel into the cutout hole and adjust height of bushing above the panel to a minimum of 0.079" (2.0mm) and a maximum of 0.098" (2.5mm).
2. Screw the boot onto the bushing. Tighten the hexagon nut on the back of panel to complete.

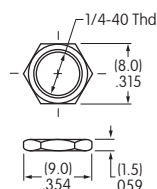


STANDARD HARDWARE FOR SWITCH & BOOT

AT513H Hexagon Nut

1 included with each switch

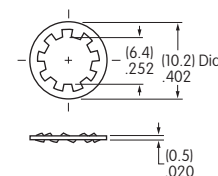
Material:
Brass with Nickel plating



AT509 Lockwasher

1 included with each switch

Material:
Steel with Zinc/Chromate



POLES & CIRCUITS

Toggle Position NONE = No Position () = Momentary					Connected Terminals			Throw & Schematics
Pole	Model	Down 	Center 	Up 	Down 	Center 	Up 	Note: Terminal numbers are not actually on the switch. 
SP	MN13	ON	OFF	ON	2-3	OPEN	2-1	

CONTACT MATERIALS & RATINGS

Silver over Silver

Power Level

6A @ 125V AC & 3A @ 250V AC &
4A @ 30V DC

Base Switch Specifications

Electrical Capacity (Resistive Load)

Power Level: 6A @ 125V AC, 3A @ 250V AC, 4A @ 30V DC
Recommended minimum voltage/current: 0.1A @ 2V AC/DC

Other Ratings

Contact Resistance: 10 milliohms maximum
Insulation Resistance: 1,000 megohms minimum @ 500V DC
Dielectric Strength: 1,000V AC minimum between contacts for 1 minute minimum;
1,500V AC minimum between contacts and case for 1 minute minimum
Mechanical Life: 50,000 operations minimum
Electrical Life: 25,000 operations minimum
Angle of Throw: 25°

Materials & Finishes

Toggle: Brass with chrome plating
Frame: Stainless steel
Bushing: Brass with nickel plating
Case: Diallyl phthalate resin
Movable Contactor: Phosphor bronze with silver plating or silver/silver alloy with no plating
Movable Contacts: Silver alloy
Stationary Contacts: Silver alloy with silver plating
Terminals: Copper or brass with silver plating

Environmental Data

Operating Temperature Range: -30°C through +85°C (-22°F through +185°F)
Humidity: 90 ~ 95% humidity for 240 hours @ 40°C (104°F)
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: 500m/s² acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Sealing: With Splashproof Boot AT428H assembled on switch, meets IP65 of IEC 60529 Standards
RoHS Compliant: 

Installation

Mounting Torque: 0.7Nm (6 lb•in) single nut

Processing

Soldering: Manual Soldering: 350°C for 3 seconds, 1 cycle
Note: Lever must be in OFF (center) position while soldering.
Cleaning: These devices are not process sealed. Hand clean locally using alcohol based solution.



MN13SS1W01-AT428H
Miniature Toggle with
AT428H Splashproof Boot

IP65 Rated with Boot
Dust tight and protected
against water jets
from any direction