

PNP Series Sealed Pushbutton Switch



A

Pushbutton

Features/Benefits

- IP68 sealed to endure harsh environments
- 1,000,000 life cycle
- Longer solder leads for ease of wire installation
- Multiple housing styles
- Up to 5A resistive load
- Wirelead options available
- RoHS compliant

Typical Applications

- Control Grips
- Off-Road Panels
- Heavy Equipment
- Industrial Instruments
- Lifts
- Conveyor Controls



Specifications

FUNCTION: SPST, SPDT Double Break (Form Z) Momentary
CONTACT ARRANGEMENT: N.O. and N.C.
MOUNTING TYPE: Threaded front mount
TORQUE SPEC FOR THREADED BODY: Do not exceed 10 in-lbs (1.35 N-m)

Mechanical

OPERATING LIFE: 1,000,000 cycles
TOTAL TRAVEL: 2 mm max.
OPERATING POINT 0.9 ± 0.25 mm
OVER TRAVEL: 0.25 mm min.
OPERATING FORCE: $8N \pm 1.5N$
VIBRATION: 10-500 Hz 10g Max
SHOCK: 50g 11ms sawtooth wave

Electrical

CONTACT RATING:
Option "Q" Silver
5A/32 VDC resistive (25,000 cycles)
3A/32 VDC resistive (25,000 cycles)
Option "G" Gold over Silver
10mA/5 VDC resistive (1,000,000 cycles)

DIELECTRIC STRENGTH: 1000 V AC for 1 min.
INSULATION RESISTANCE: $1 G \Omega @ 500$ VDC
INITIAL CONTACT RESISTANCE $50 m\Omega$ max (without wire leads)
BOUNCE TIME: <5 ms

Materials

HOUSING: PBT/PC
BASE: PBT
CAP: PBT
ACTUATOR: PBT
INTERNAL SEAL: Silicone rubber
TERMINALS: Copper with silver nickel inlay, silver plating
MOVABLE CONTACT: Copper alloy, gold over silver plating
TERMINAL SEAL: Epoxy

Operating Environment

OPERATING TEMPERATURE: -40°C to $+85^{\circ}\text{C}$
ESD PROTECTION: 15KV min.

Process Environment

SEALING: IP68

NOTE: Specifications and materials listed above are for switches with standard options.
For information on specific and custom switches, please contact Customer Service.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box.

Designation	PNP	P	N	P	8					2					E
PNP	PNP Series														
Operating Force	8 8 Newtons														
Actuator Style	S Standard E Extended (D housing style only)														
Actuator Color *	2 Black (STD) 3 Red 5 Yellow														
Housing Style	T Standard threaded mount D Dome bezel														
Housing Color	2 Black (STD)														
Terminal Seal	E Epoxy All models are epoxy sealed														
Contact Material	Q Silver (STD) G Gold over silver														
Termination	02 PC Pin (G contact material only) 03 Solder Lug (STD) W2 2 x 12" 22 AWG UL1569 wire (overmolded) W3 3 x 12" 22 AWG UL1569 wire (overmolded) W4 4 x 12" 22 AWG UL1569 wire (overmolded)														
Circuit	C SPDT - Double Break W SPST NC - Double Break Y SPST NO - Double Break														

* Additional colors available, please contact Customer Service



20 mar 17



Third Angle
Projection

Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

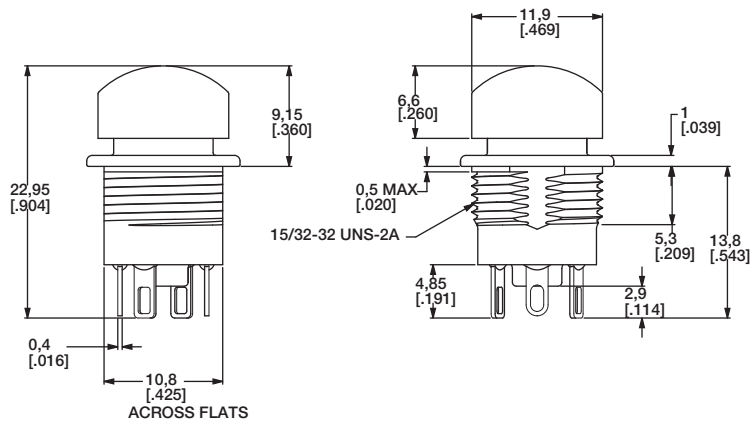


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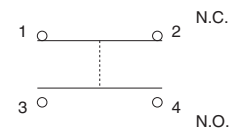
A

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STANDARD VIEW



ELECTRICAL SCHEMATIC



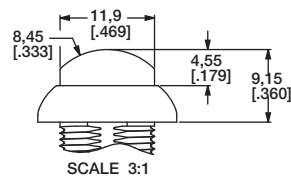
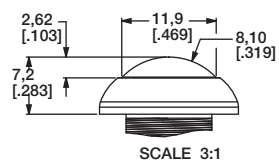
OPERATING FORCE

OPTION CODE	OPERATING FORCE
8	8 N

ACTUATOR STYLE

S STANDARD

E EXTENDED (D HOUSING STYLE ONLY)



ACTUATOR COLOR

OPTION CODE	ACTUATOR COLOR
2	Black
3	Red
5	Yellow

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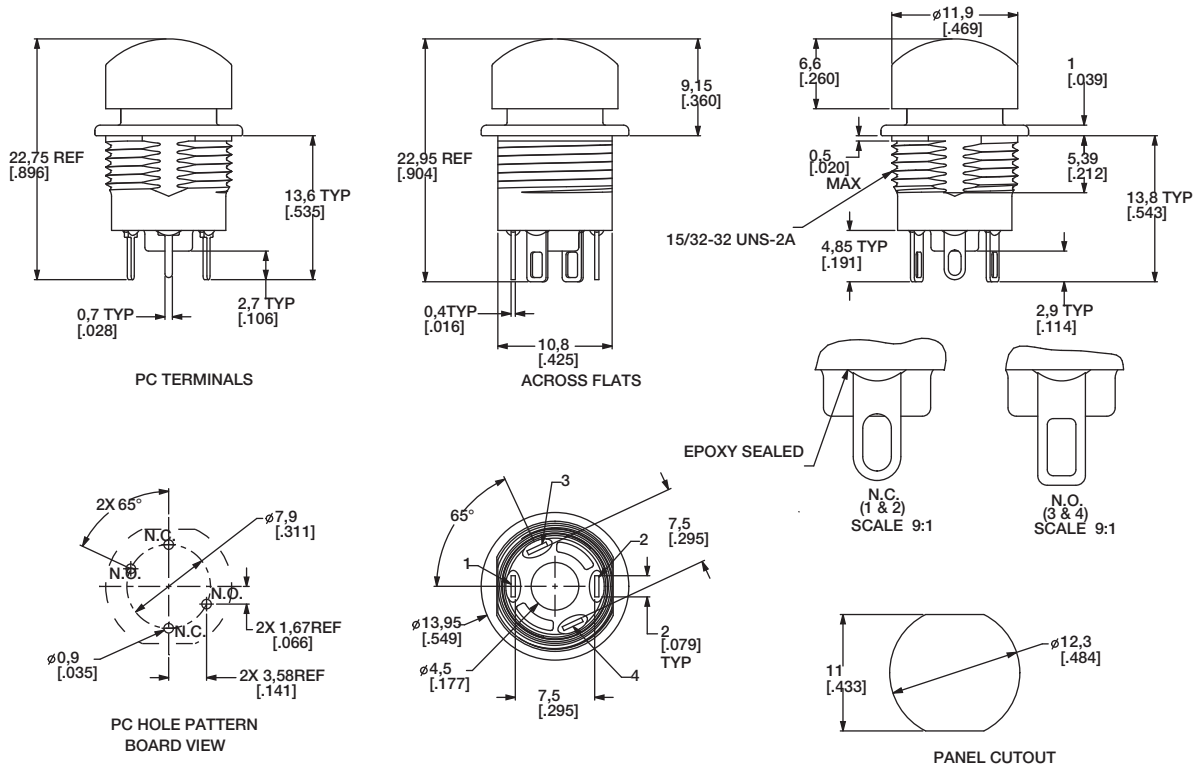


A

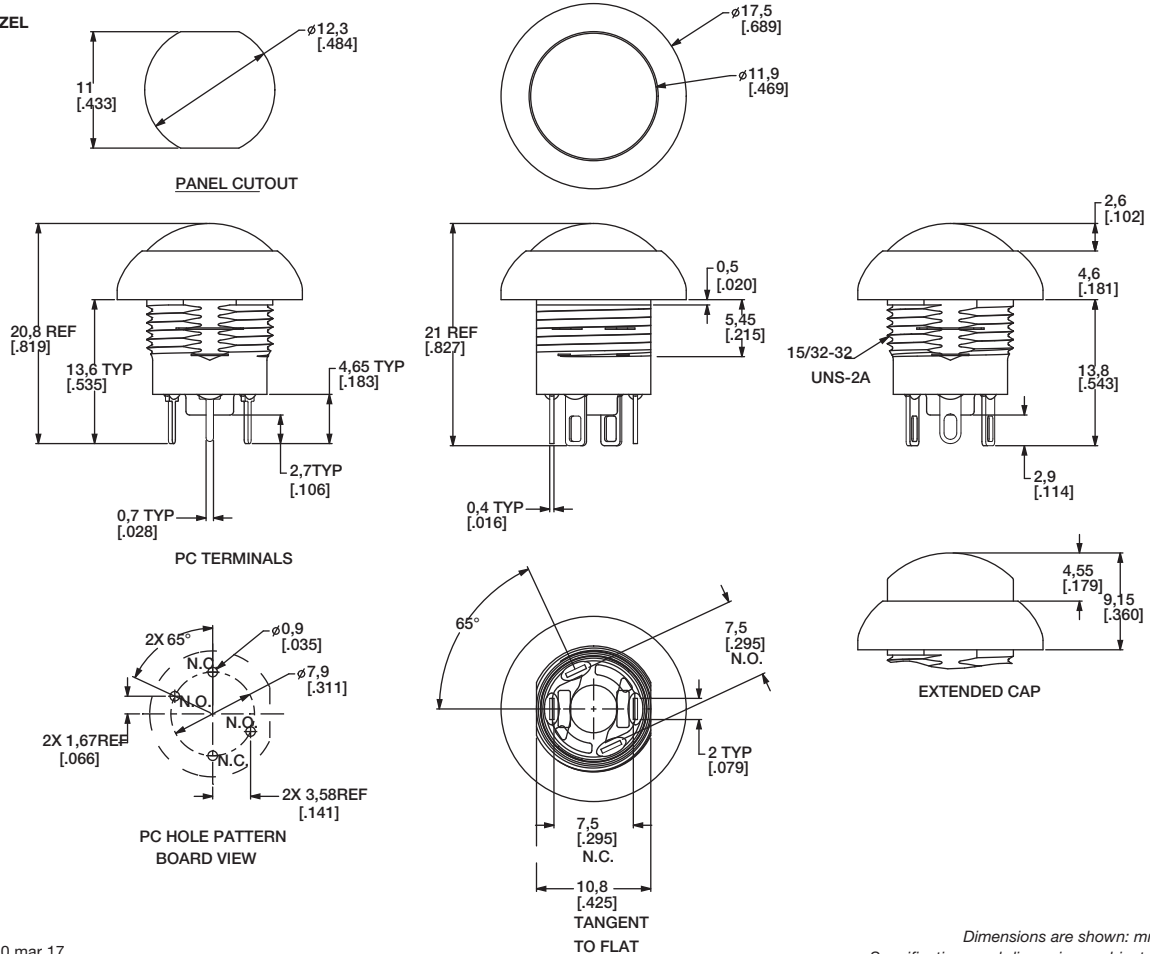
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HOUSING STYLE

T STANDARD THREADED MOUNT



D DOME BEZEL



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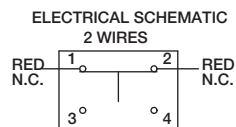
Pushbutton

HOUSING COLOR

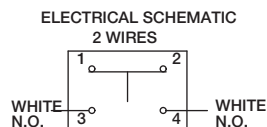
OPTION CODE	COLOR
2	Black (STD)

CIRCUIT

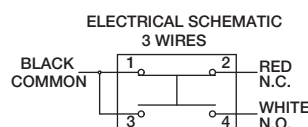
W SPST NC - Double Break



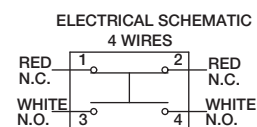
Y SPST NO - Double Break



C SPDT - Double Break

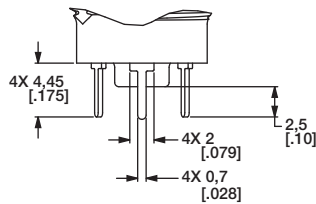


C SPDT - Double Break

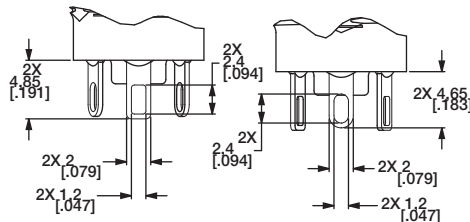


TERMINATION

02 PC PIN



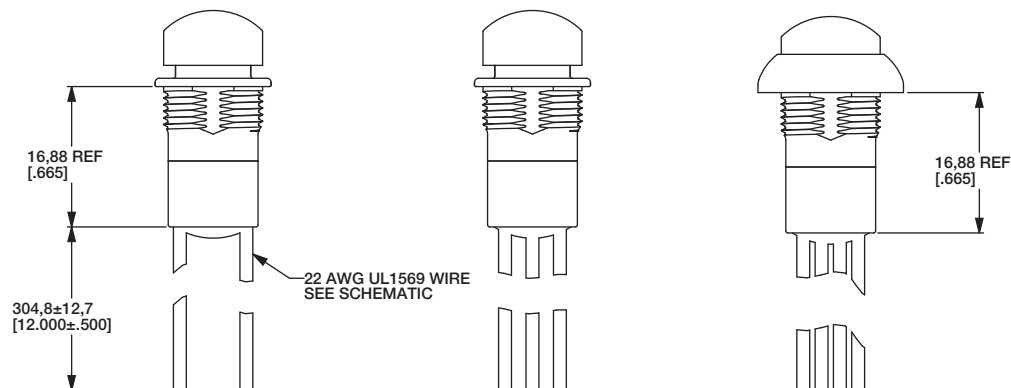
03 SOLDER LUG (STD)



W2 2 x 12" 22 AWG UL1569 wire (overmolded)

W3 3 x 12" 22 AWG UL1569 wire (overmolded)

W4 4 x 12" 22 AWG UL1569 wire (overmolded)



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CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL
Q	Silver (STD)
G	Gold over silver

TERMINAL SEAL

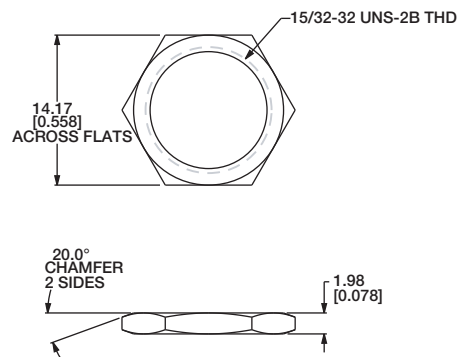
E EPOXY

All models are epoxy sealed

HARDWARE

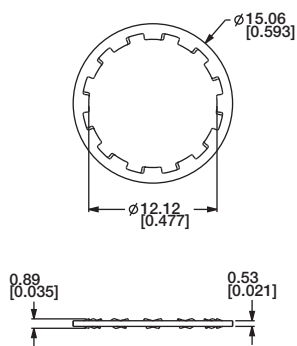
HEX NUT

707100201 Nickel-plated



LOCKWASHER

700302202



PANEL GASKET

851D02000

