

NEW

# PNP Series Sealed Pushbutton Switch

A  
Pushbutton

## Features/Benefits

- Snap-Action provides positive tactile feedback
- IP68 sealed to endure harsh environments
- 1,000,000 life cycle
- Up to 5A resistive load
- Multiple housing styles
- Various termination types and wirelead options are also 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  $0.9 \pm 0.25$  mm  
OVER TRAVEL: 0.25 mm min.  
OPERATING FORCE:  $3N \pm 1.5N$   
 $8N \pm 1.5N$   
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:  $1 \text{ G } \Omega$  @ 500 VDC  
INITIAL CONTACT RESISTANCE  $50 \text{ m}\Omega$  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:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$   
ESD PROTECTION: 15KV min.  
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** PNP Series

**Operating Force**  
**3** 3 Newtons  
**8** 8 Newtons

**Actuator Style**  
**S** Standard  
**E** Extended (D housing style only)  
**N** None

**Actuator Color \***  
**0** No Cap  
**1** White  
**2** Black (STD)  
**3** Red  
**4** Orange  
**5** Yellow  
**6** Green  
**7** Blue  
**9** Gray

**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



Third Angle  
Projection

**C&K**

4 May 20

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



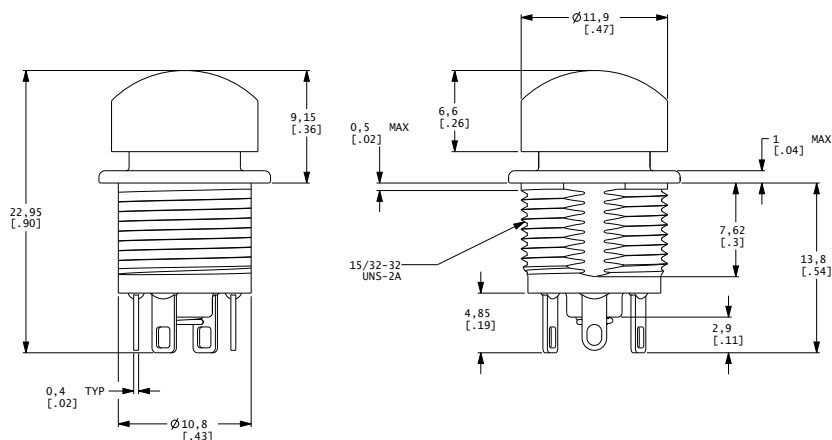
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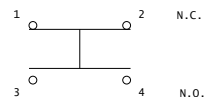
Pushbutton

A

## STANDARD VIEW



ELECTRICAL SCHEMATIC



## OPERATING FORCE

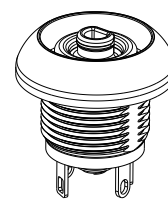
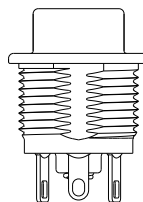
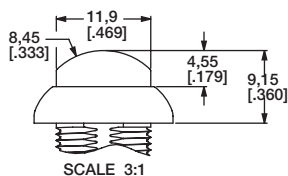
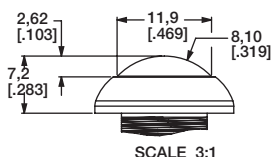
| OPTION CODE | OPERATING FORCE |
|-------------|-----------------|
| 3           | 3 N             |
| 8           | 8 N             |

## ACTUATOR STYLE

**S** STANDARD

**E** EXTENDED (D HOUSING STYLE ONLY)

**N** NO CAP



## ACTUATOR COLOR

| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 0           | No color       |
| 1           | White          |
| 2           | Black          |
| 3           | Red            |
| 4           | Orange         |
| 5           | Yellow         |
| 6           | Green          |
| 7           | Blue           |
| 9           | Gray           |

\* Cap may be ordered separately

### PART NUMBER

285E01000  
285E02000  
285E03000  
285E04000  
285E05000  
285E06000  
285E07000  
285E09000

### COLOR

White  
Black  
Red  
Orange  
Yellow  
Green  
Blue  
Gray

824D01000  
824D02000  
824D03000  
824D04000  
824D05000  
824D06000  
824D07000  
824D09000

White  
Black  
Red  
Orange  
Yellow  
Green  
Blue  
Gray



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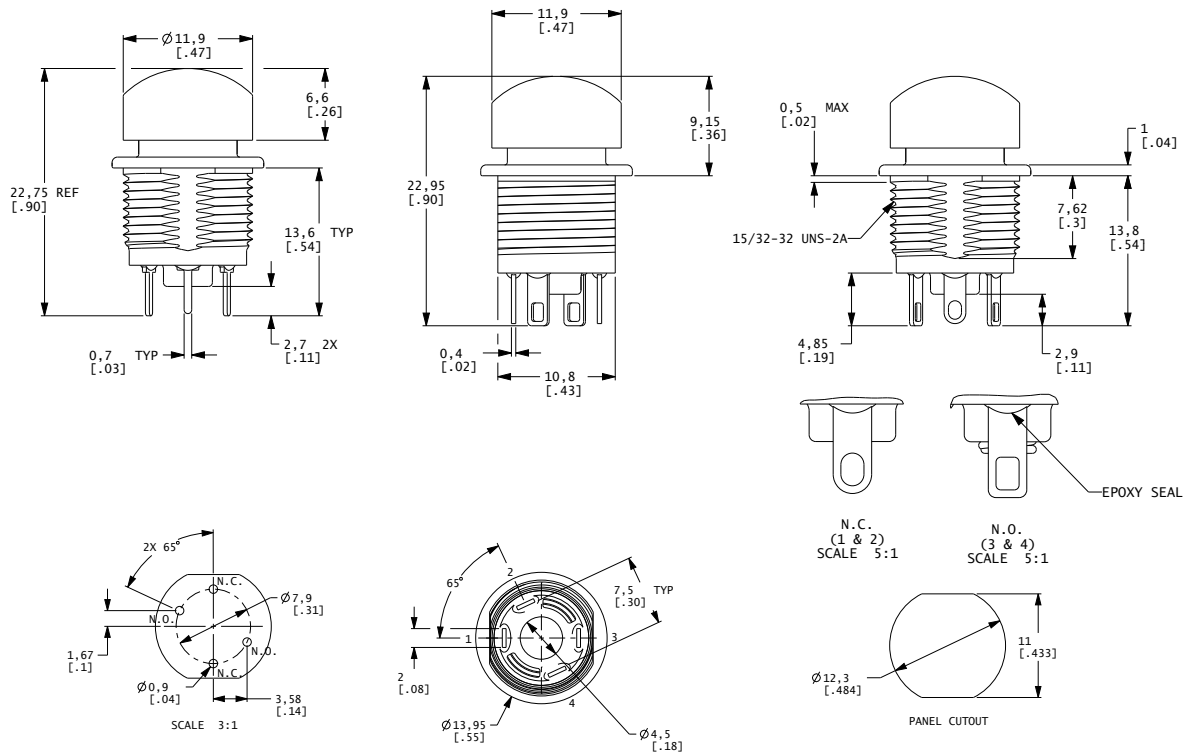


**A**

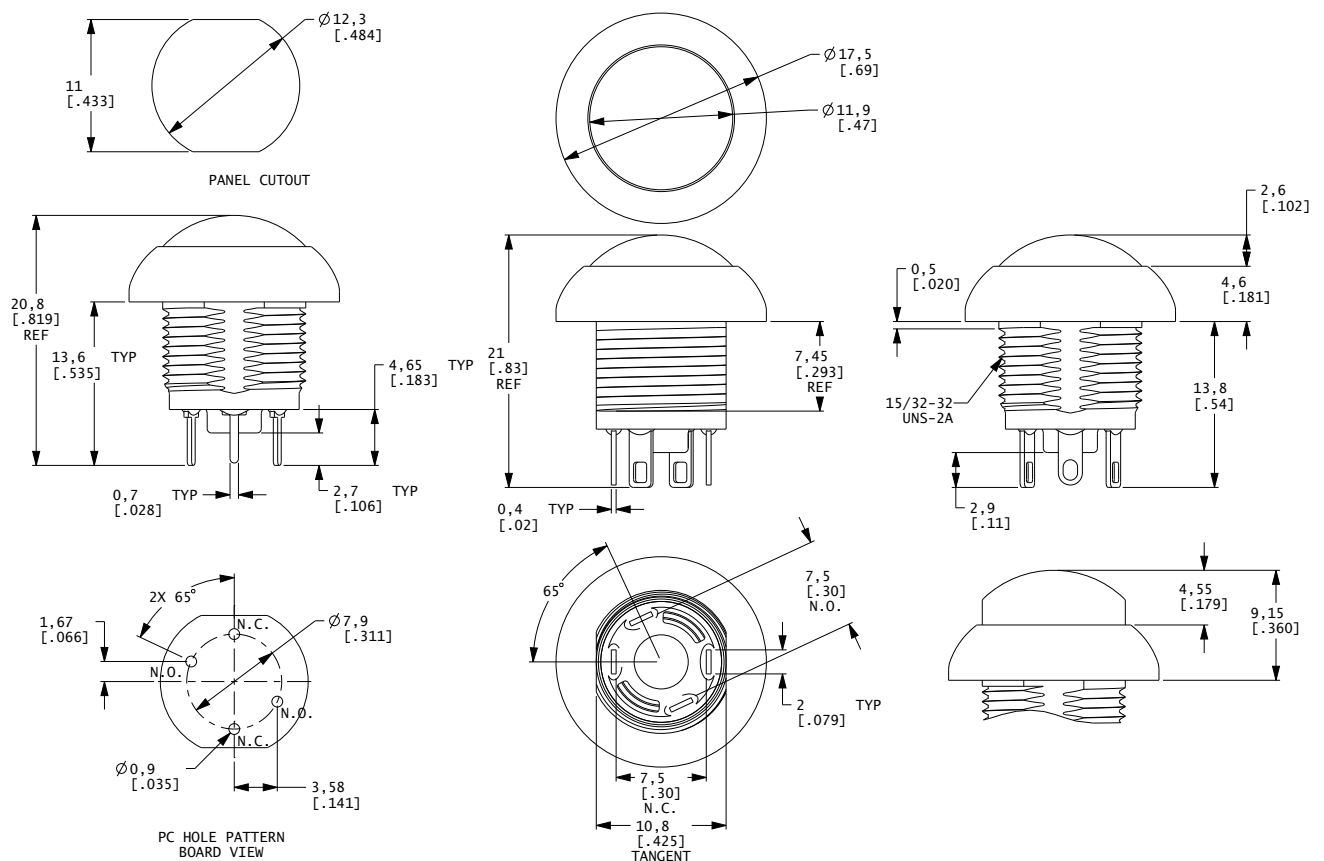
Pushbutton

## HOUSING STYLE

### T STANDARD THREADED MOUNT



### D DOME BEZEL



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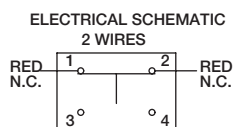
Pushbutton  
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## HOUSING COLOR

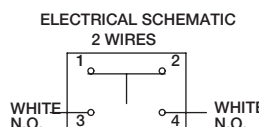
| OPTION CODE | COLOR       |
|-------------|-------------|
| 2           | Black (STD) |

## CIRCUIT

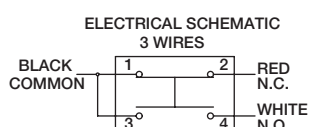
**W** SPST NC - Double Break



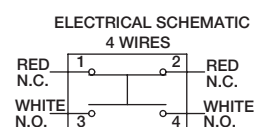
**Y** SPST NO - Double Break



**C** SPDT - Double Break

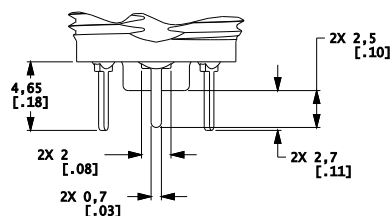


**C** SPDT - Double Break

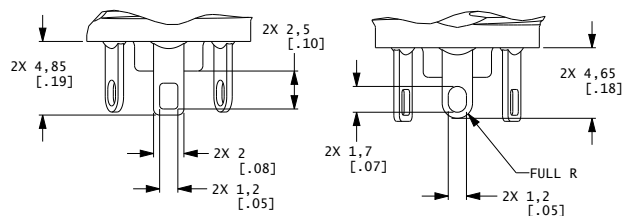


## TERMINATION

**02** PC PIN



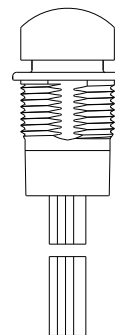
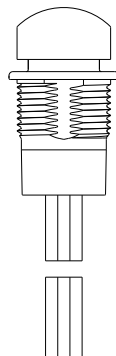
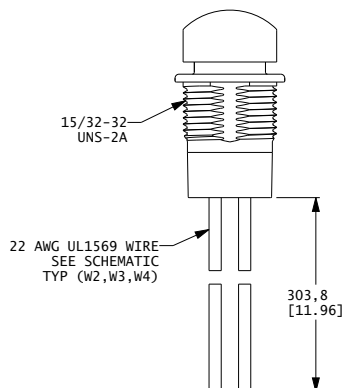
**03** SOLDER LUG (STD)



**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 |
|-------------|------------------|
| <b>Q</b>    | Silver (STD)     |
| <b>G</b>    | Gold over silver |

## TERMINAL SEAL

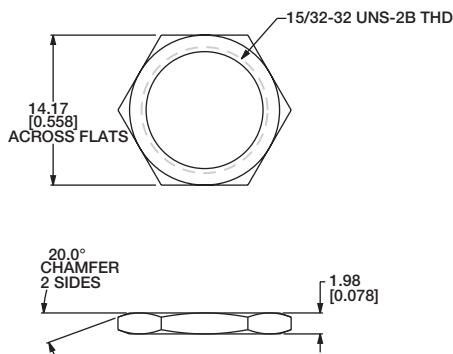
**E** EPOXY

All models are epoxy sealed

## HARDWARE

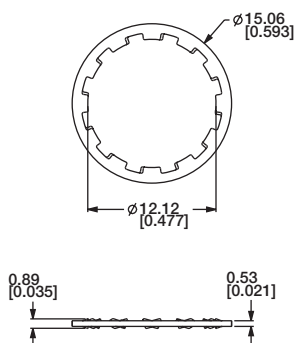
### HEX NUT

707100201 Nickel-plated



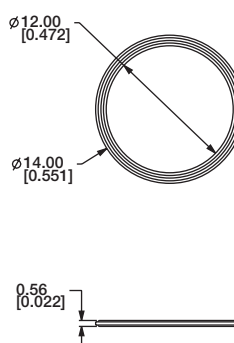
### LOCKWASHER

700302202



### PANEL GASKET

851D02000





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.