



A

Pushbutton

NP Series

Sealed Industrial Pushbutton Switch

NEW!

Features/Benefits

- IP68 sealed
- 1,000,000 life cycle
- Multiple housing styles
- Capable of up to 5A resistive load
- Wirelead options available
- RoHS compliant

Typical Applications

- Harsh environments
- Off-Road
- Industrial
- Transportation
- Military



Specifications

FUNCTION: SPDT Double Break (Form Z) Momentary
CONTACT ARRANGEMENT: N.O. and N.C.
MOUNTING TYPE: Threaded front or rear mount and slot mount

Mechanical

OPERATING LIFE: 1,000,000 cycles
TOTAL TRAVEL: 1.6 ± 0.15 mm
OPERATING POINT 0.9 ± 0.25 mm
OVER TRAVEL: 0.45 min.
OPERATING FORCE: $8N \pm 1N$
VIBRATION: 10-500 Hz 10g Max
SHOCK: 50g 11ms sawtooth wave

Electrical

CONTACT RATING:
Option G - Gold over Silver
10mA/5 VDC (1,000,000 cycles)
Option Q - Silver
1A/32 VDC resistive (100,000 cycles)
5A/32 VDC resistive (25,000 cycles)
3A/32 VDC inductive (25,000 cycles)
DIELECTRIC STRENGTH: 1000 V AC for 1 min.
INSULATION RESISTANCE: $1 G \Omega$ @ 500 VDC
INITIAL CONTACT RESISTANCE 50 m Ω max (without wire leads)
BOUNCE TIME: <5 ms

Materials

HOUSING: 6061-T6 Aluminum, black or clear anodized
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: -55°C to +105°C
ESD PROTECTION: 15KV min.

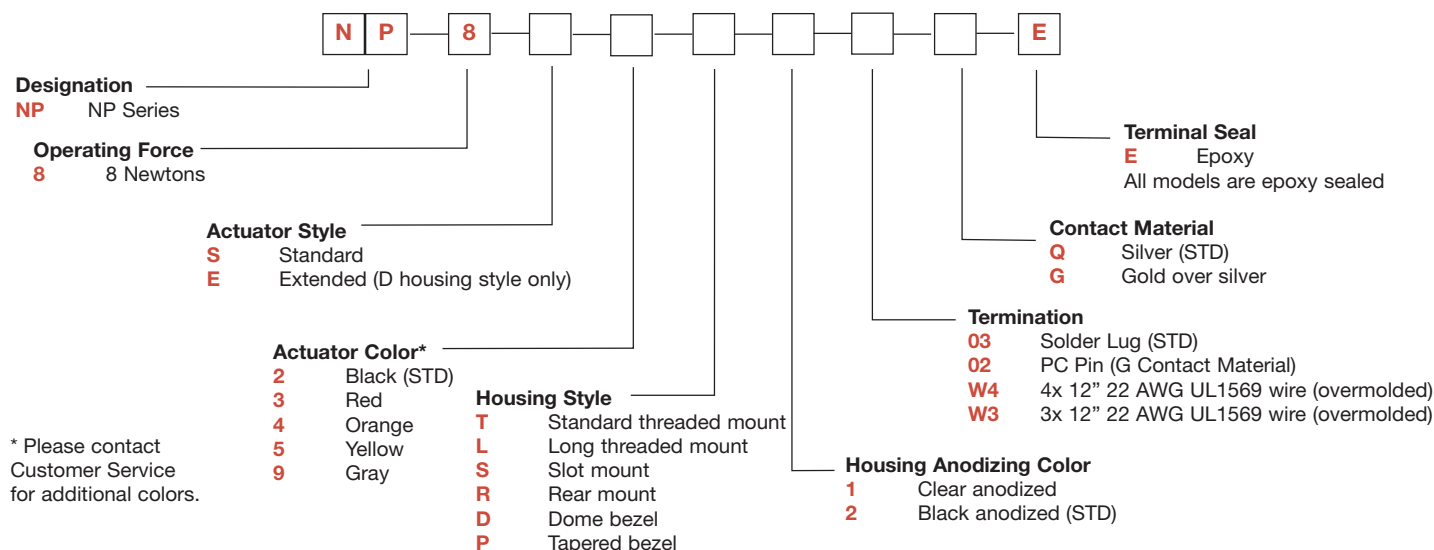
Process Environment

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.



Specifications and dimensions subject to change

NEW!

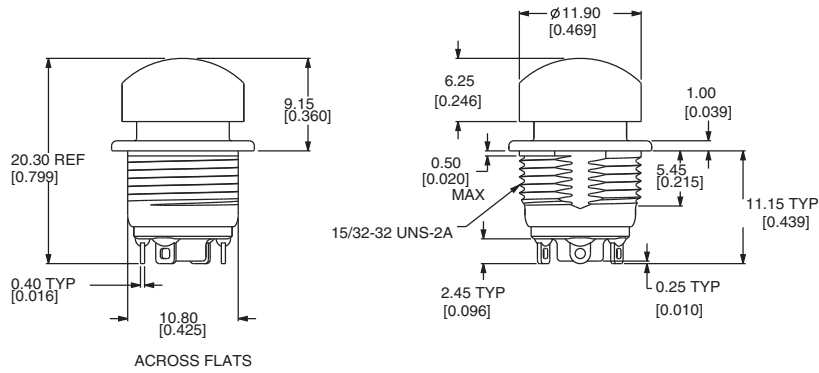
NP Series Sealed Industrial Pushbutton Switch



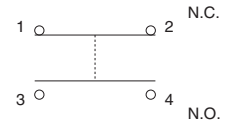
A

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STANDARD VIEW



ELECTRICAL SCHEMATIC



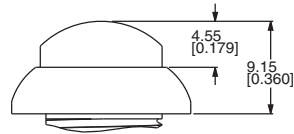
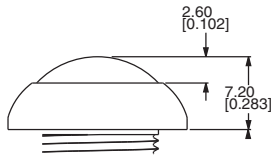
OPERATING FORCE

OPTION CODE	OPERATING FORCE
8	8 N

ACTUATOR STYLE

S STANDARD

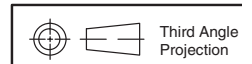
E EXTENDED (D HOUSING STYLE ONLY)



ACTUATOR COLOR

OPTION CODE	ACTUATOR COLOR
2	Black
3	Red
4	Orange
5	Yellow
9	Gray

For additional colors please contact Customer Service.



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



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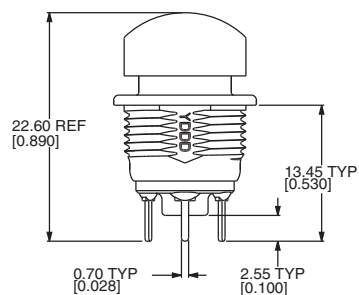
Pushbutton

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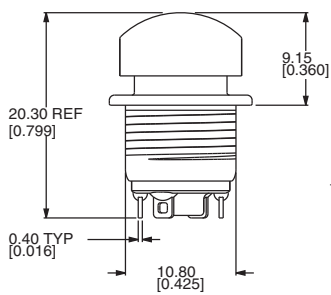
NEW!

HOUSING STYLE

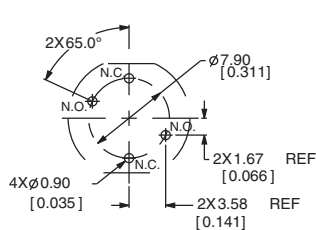
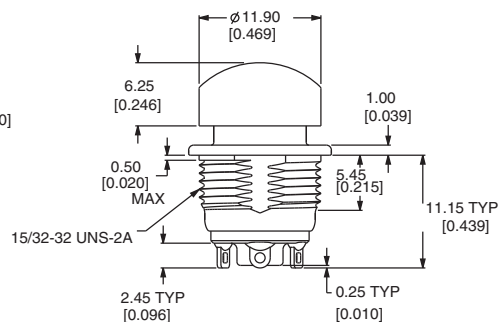
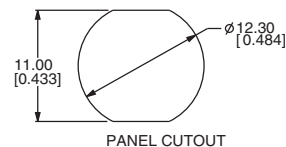
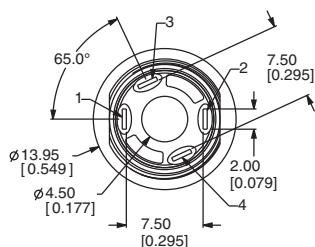
T STANDARD THREADED MOUNT



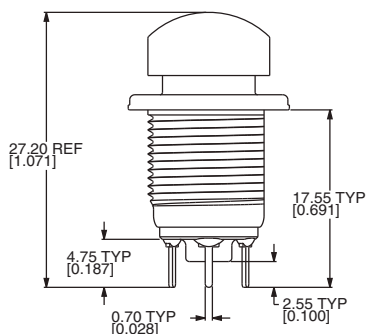
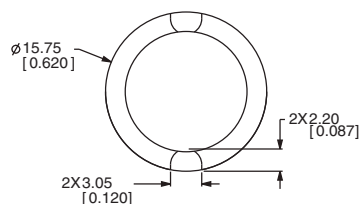
PC TERMINALS



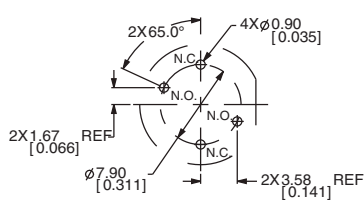
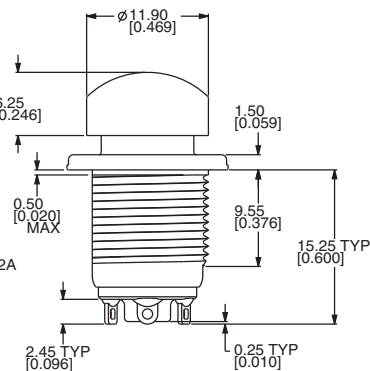
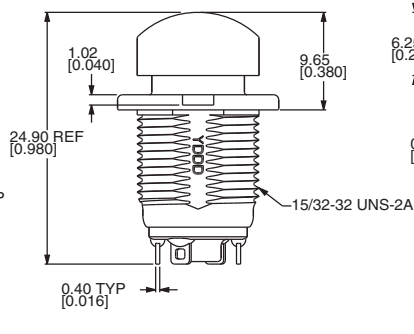
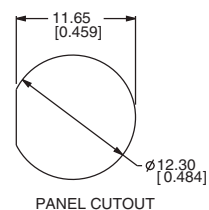
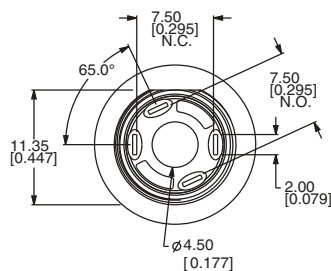
ACROSS FLATS

PC HOLE PATTERN
BOARD VIEW

L LONG THREADED MOUNT



PC TERMINALS

PC HOLE PATTERN
BOARD VIEWThird Angle
Projection

C&K

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

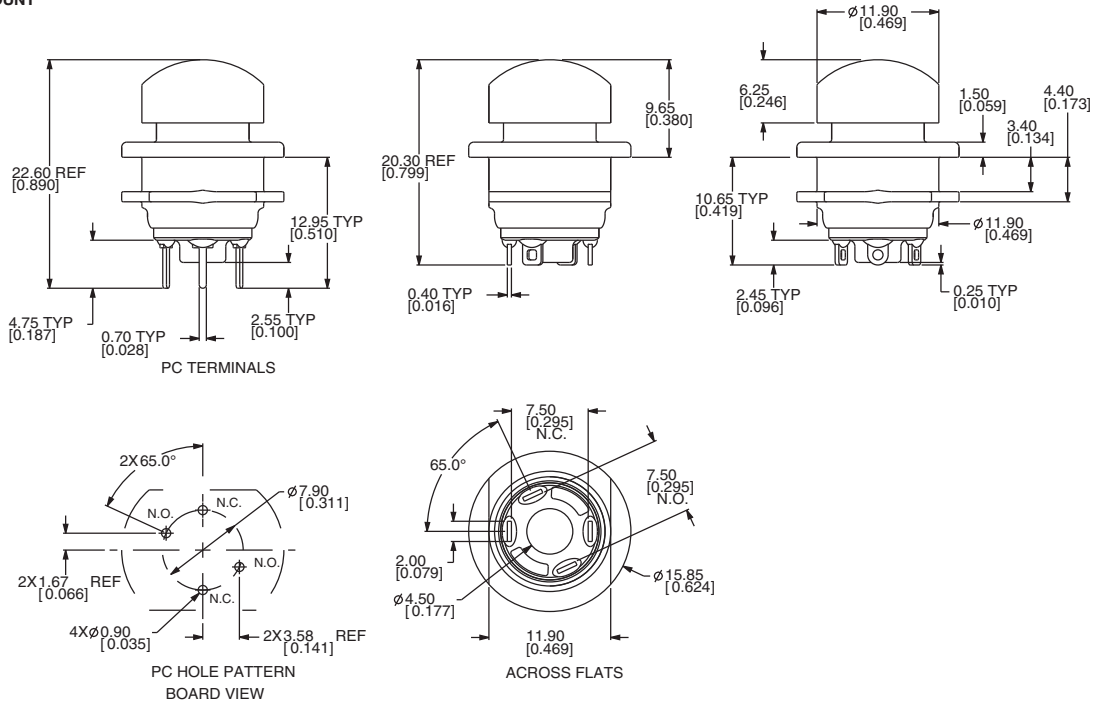
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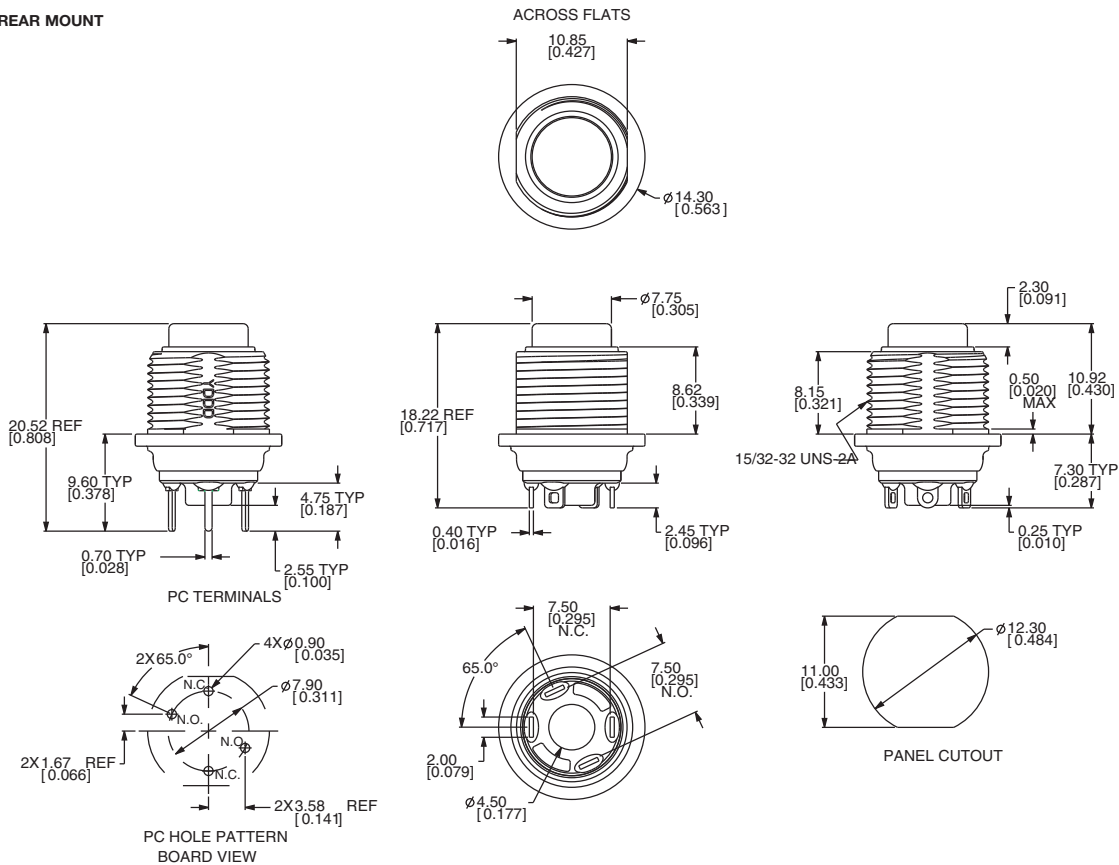
**A****Pushbutton**

HOUSING STYLE

S SLOT MOUNT



R REAR MOUNT

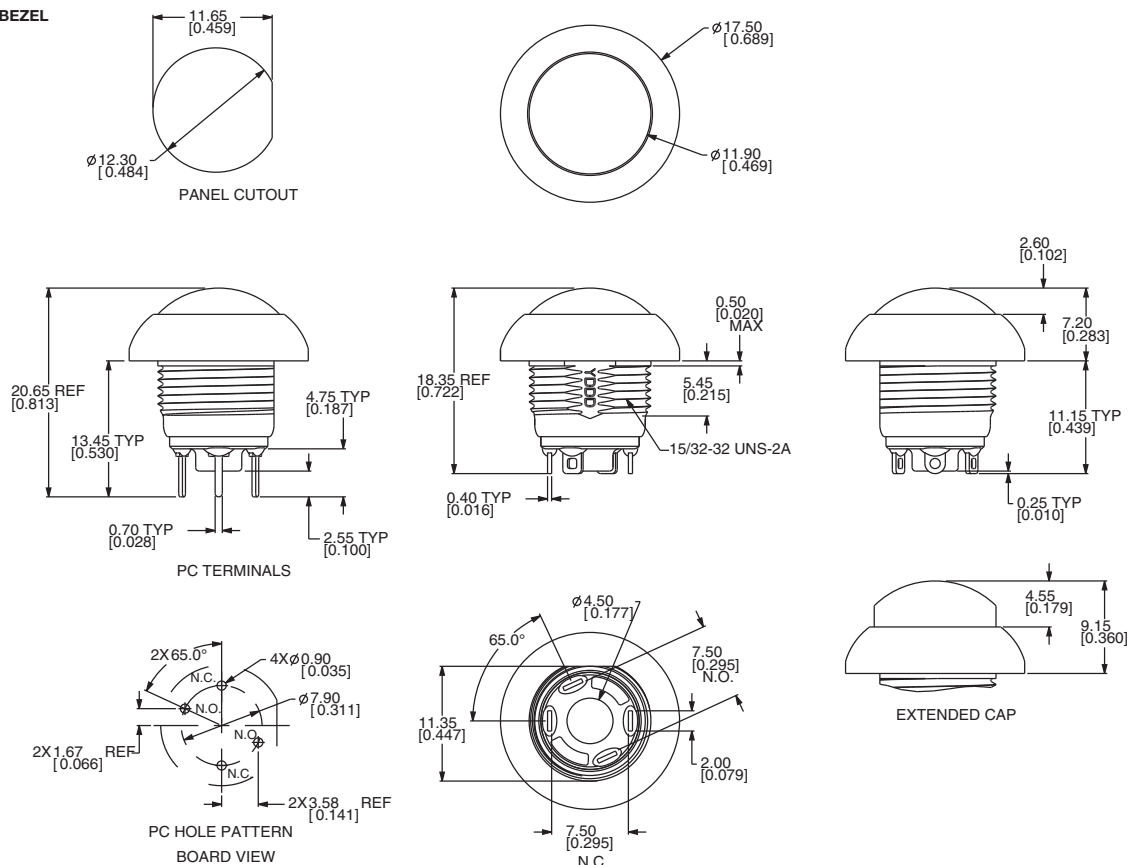
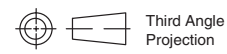
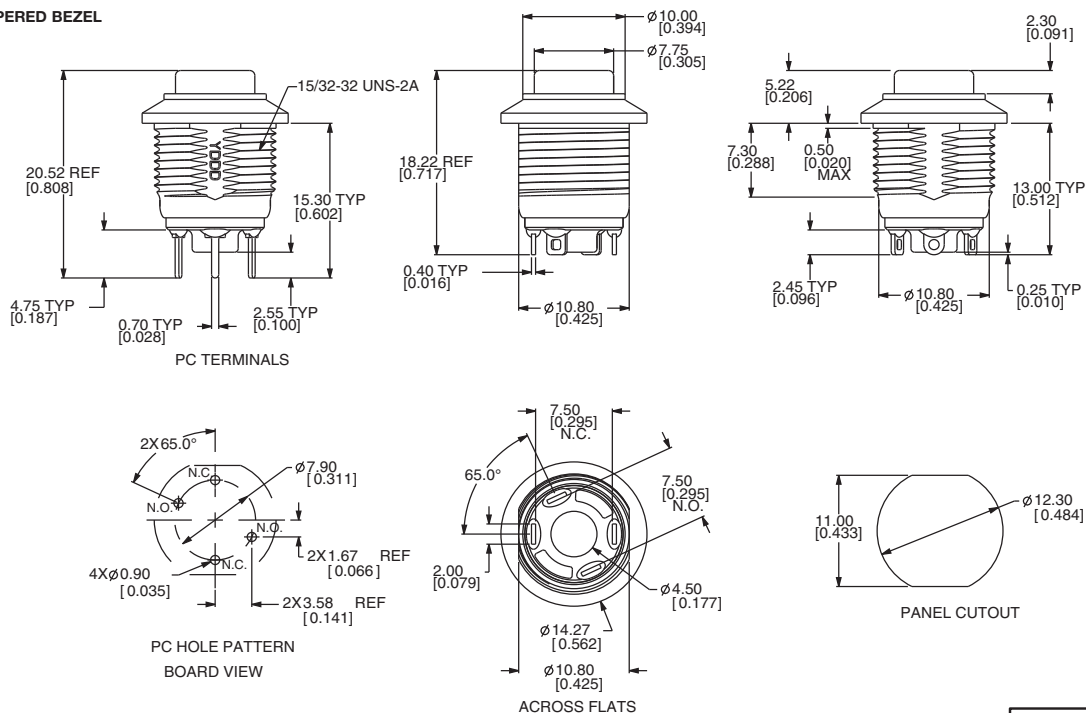
Third Angle
Projection**C&K**

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NEW!**HOUSING STYLE****D DOME BEZEL****P TAPERED BEZEL**Third Angle
Projection**C&K**

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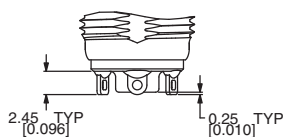
Pushbutton

HOUSING ANODIZING COLOR

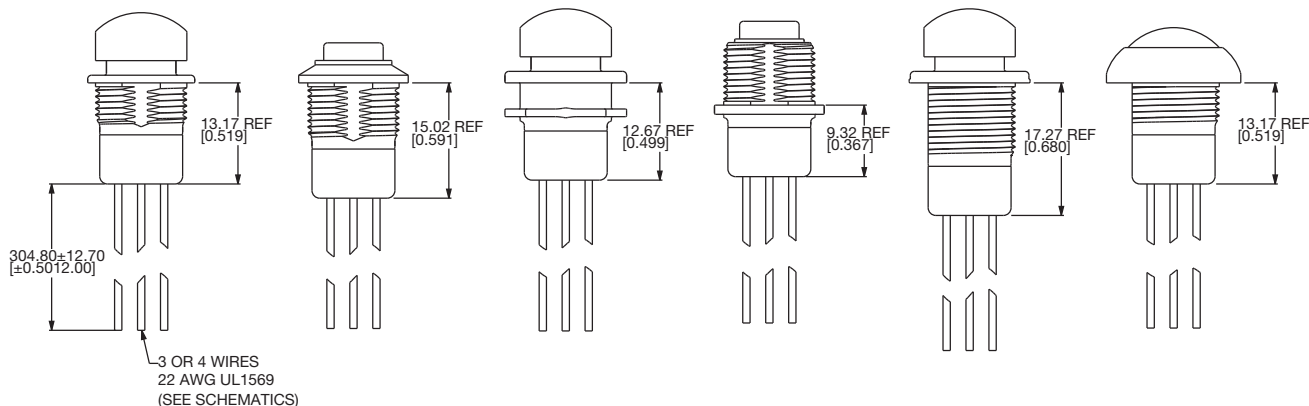
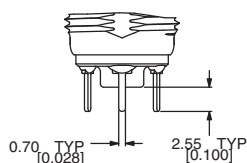
OPTION CODE	ANODIZING COLOR
1	Clear anodized
2	Black anodized (STD)

TERMINATION

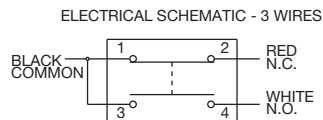
03 SOLDER LUG (STD)



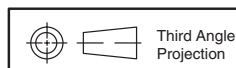
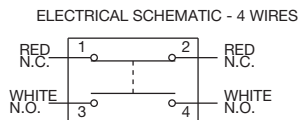
02 PC PIN (G CONTACT MATERIAL)



W3 3X 12" 22 AWG UL1569 WIRE (OVERMOLDED)



W4 4X 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

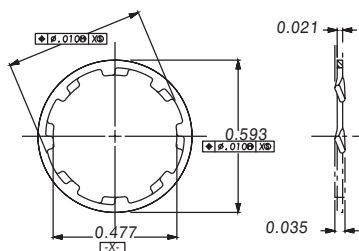
E EPOXY

All models are epoxy sealed

HARDWARE

LOCKWASHER

700302202

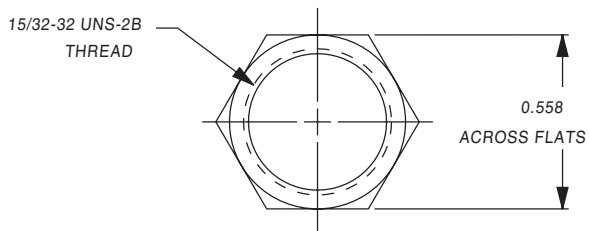


HEX NUT

707100A56 Black

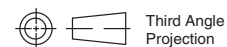
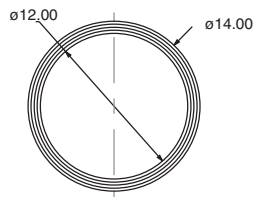
707100201 Nickel-plated

707100215 Satin Chrome



PANEL GASKET

851D020000



Third Angle
Projection

C&K

Dimensions are shown: mm (Inches)
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