

**A****Pushbutton**

NP Series Sealed Industrial Pushbutton Switch

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
TORQUE SPEC FOR THREADED BODY: Do not exceed 50 in-lbs (5.65 N-m)

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 ± 1.5N
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 resistive (25,000 cycles)

Electrical (cont.)

DIELECTRIC STRENGTH: 1000 V AC for 1 min.
INSULATION RESISTANCE: 1 G Ω @ 500 VDC
INITIAL CONTACT RESISTANCE 50 mΩ 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: -40°C to +85°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	NP	8							E
NP	NP Series								
Operating Force	8								
8	8 Newtons								
Actuator Style	S								
S	Standard								
E	Extended (D housing style only)								
Actuator Color*	2								
2	Black (STD)								
3	Red								
4	Orange								
5	Yellow								
9	Gray								
Housing Style	T								
T	Standard threaded mount								
L	Long threaded mount								
H	Short threaded mount								
S	Slot mount								
R	Rear mount								
D	Dome bezel								
P	Tapered bezel								
Terminal Seal	E								
E	Epoxy								
	All models are epoxy sealed								
Contact Material	Q								
Q	Silver (STD)								
G	Gold over silver								
Termination	03								
03	Solder Lug (STD)								
02	PC Pin (G Contact Material)								
W4	4x 12" 22 AWG UL1569 wire (overmolded)								
W3	3x 12" 22 AWG UL1569 wire (overmolded)								
Housing Anodizing Color	1								
1	Clear anodized								
2	Black anodized (STD)								

* Please contact
Customer Service
for additional colors.



Specifications and dimensions subject to change

NP Series

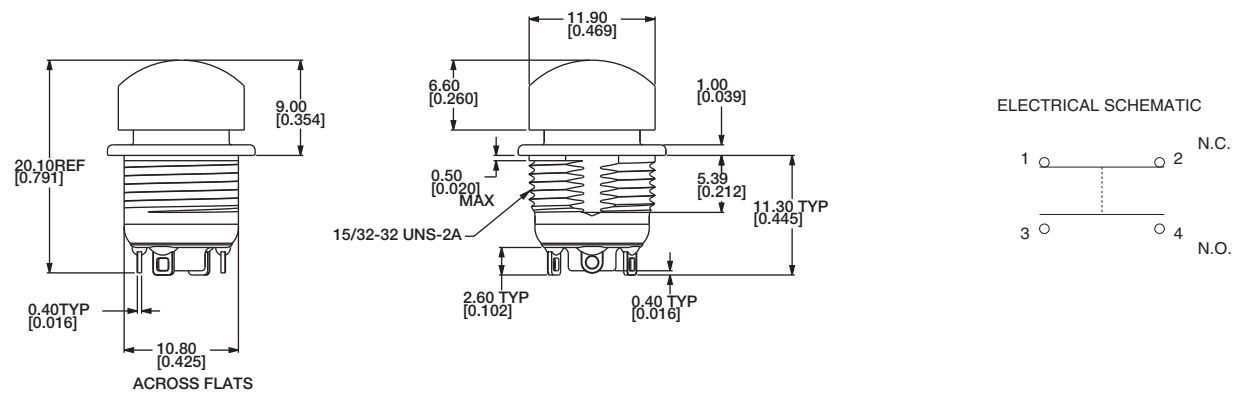
Sealed Industrial Pushbutton Switch



A

Pushbutton

STANDARD VIEW



OPERATING FORCE

OPTION CODE	OPERATING FORCE
8	8 N

ACTUATOR STYLE

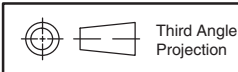
- S STANDARD
- E EXTENDED (D HOUSING STYLE ONLY)



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



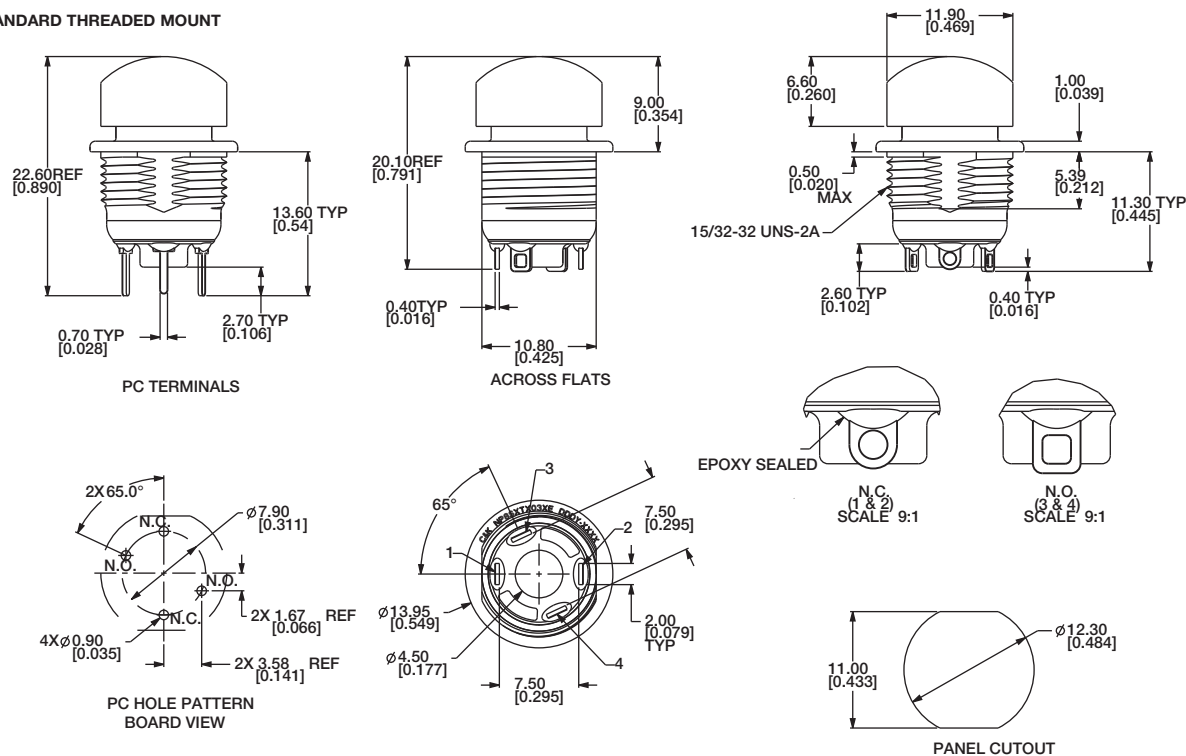
NP Series Sealed Industrial Pushbutton Switch

HOUSING STYLE

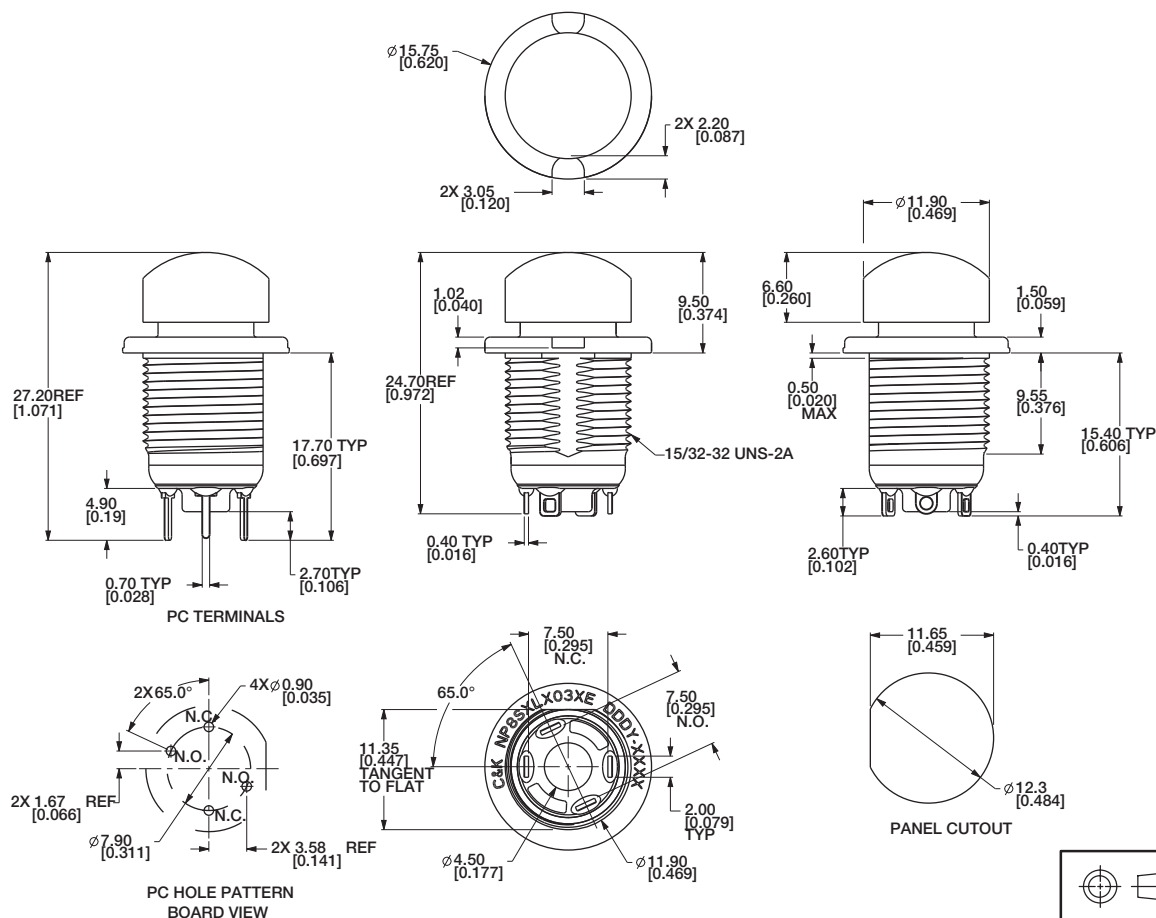
Pushbutton

A

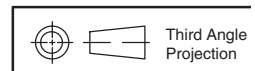
T STANDARD THREADED MOUNT



L LONG THREADED MOUNT



C&K



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

NP Series Sealed Industrial Pushbutton Switch

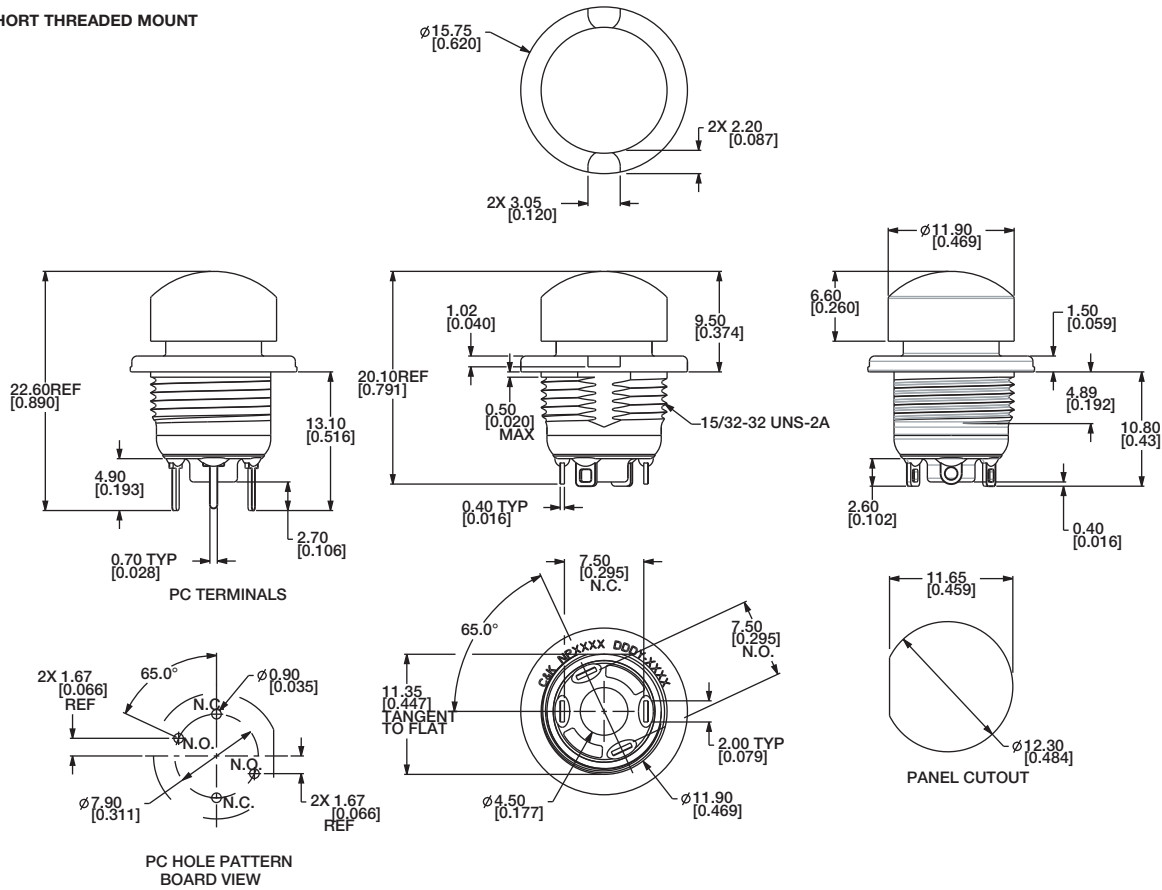


A

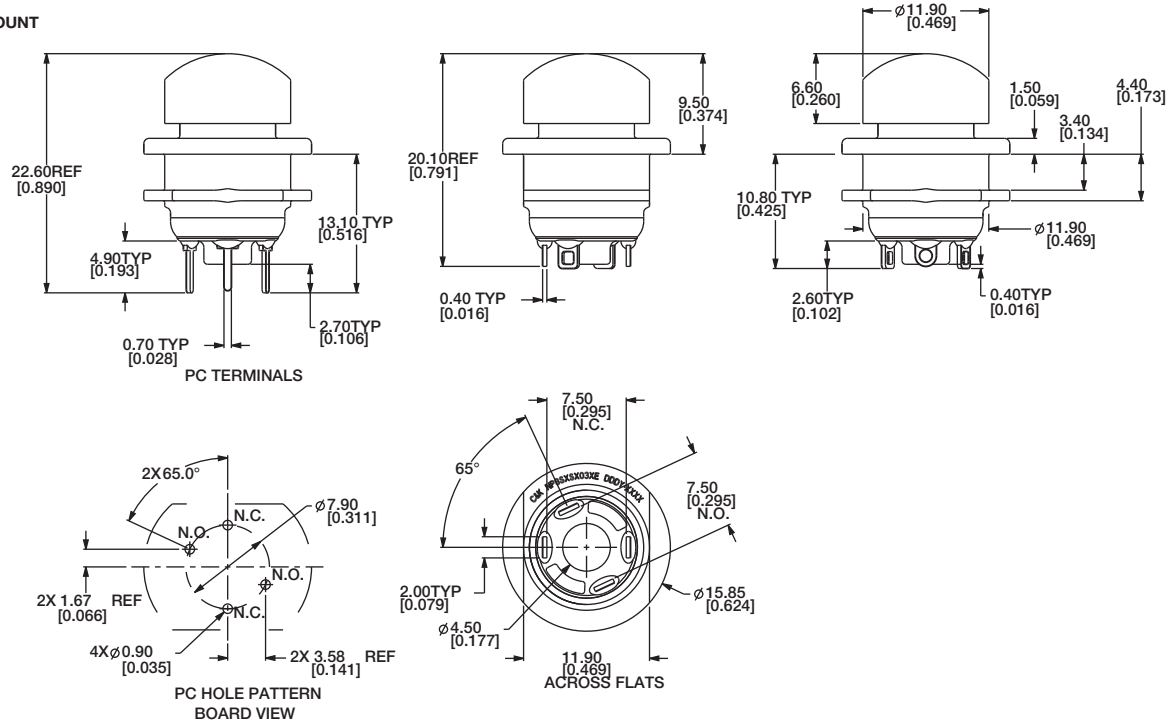
Pushbutton

HOUSING STYLE

H SHORT THREADED MOUNT



S SLOT MOUNT



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

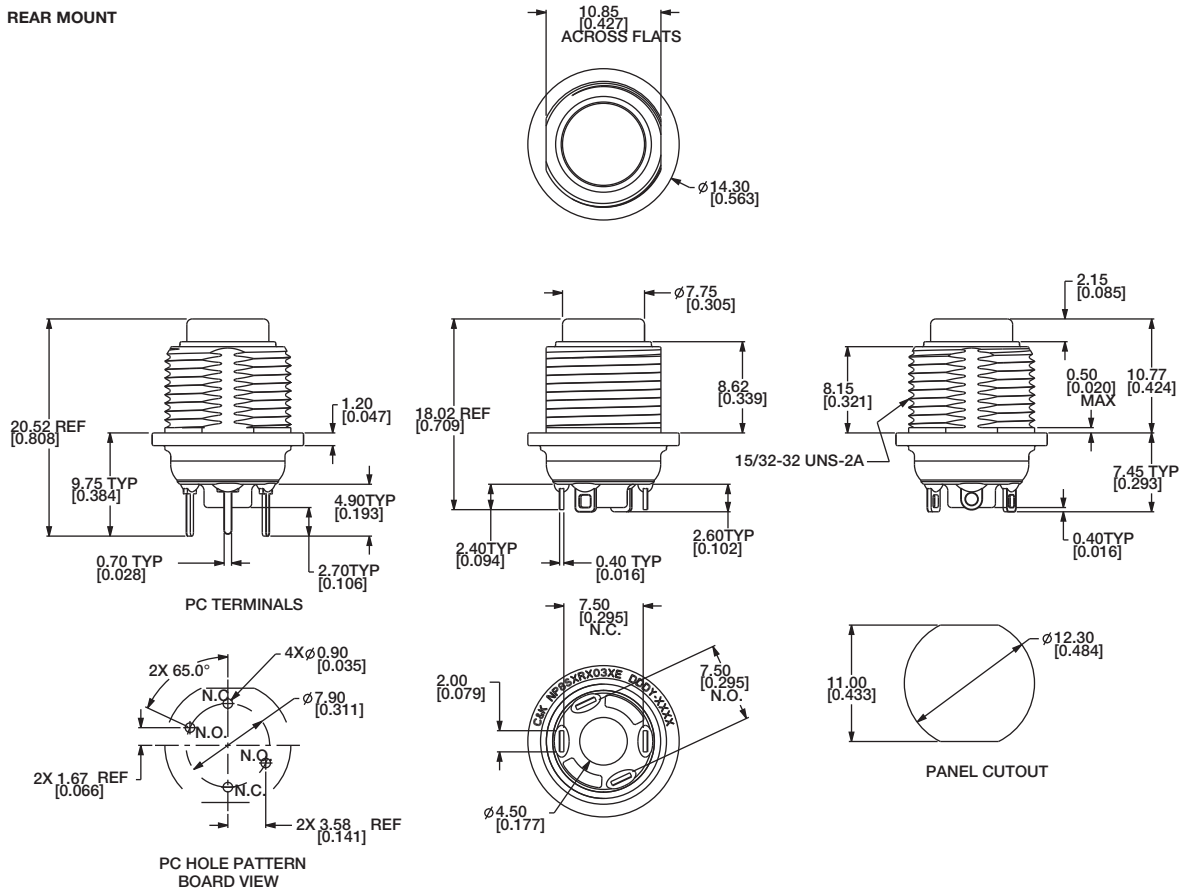


NP Series Sealed Industrial Pushbutton Switch

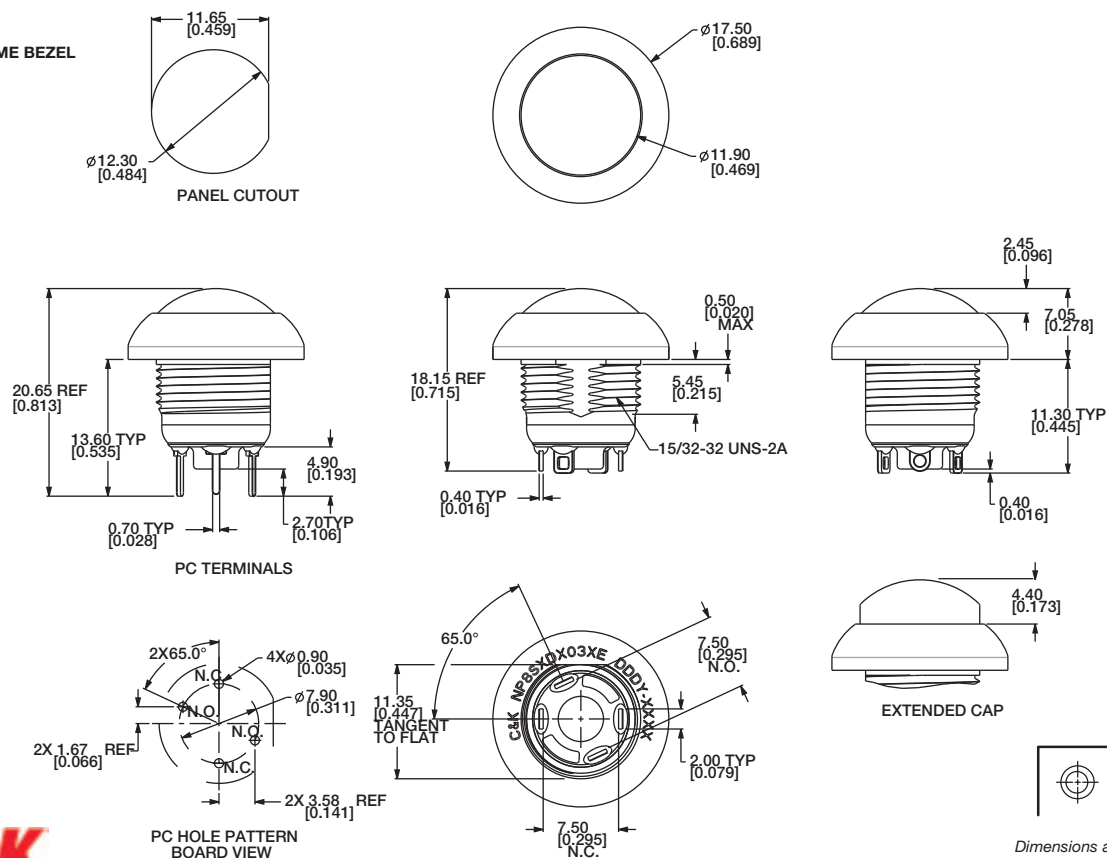
HOUSING STYLE

A
Pushbutton

R REAR MOUNT



D DOME BEZEL



C&K



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

NP Series Sealed Industrial Pushbutton Switch

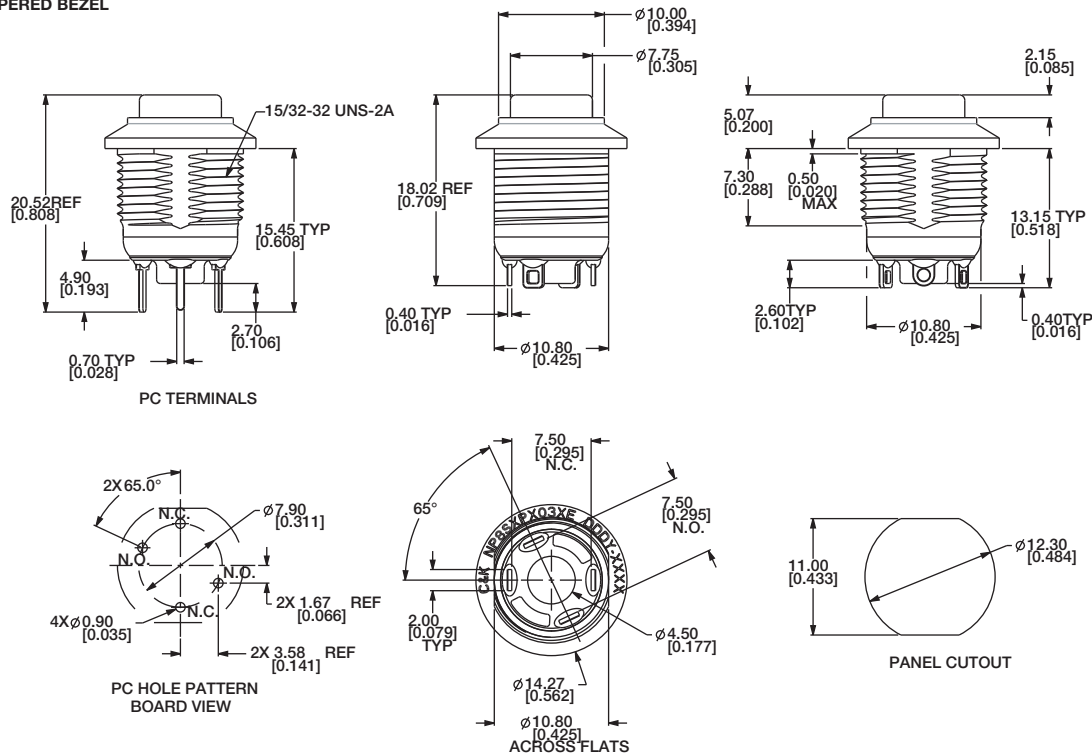


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Pushbutton

HOUSING STYLE

P TAPERED BEZEL

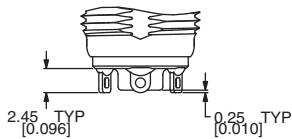


HOUSING ANODIZING COLOR

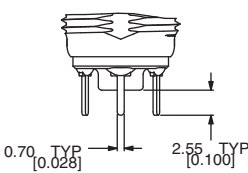
OPTION CODE	ANODIZING COLOR
1	Clear anodized
2	Black anodized (STD)

TERMINATION

03 SOLDER LUG (STD)



02 PC PIN (G CONTACT MATERIAL)



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

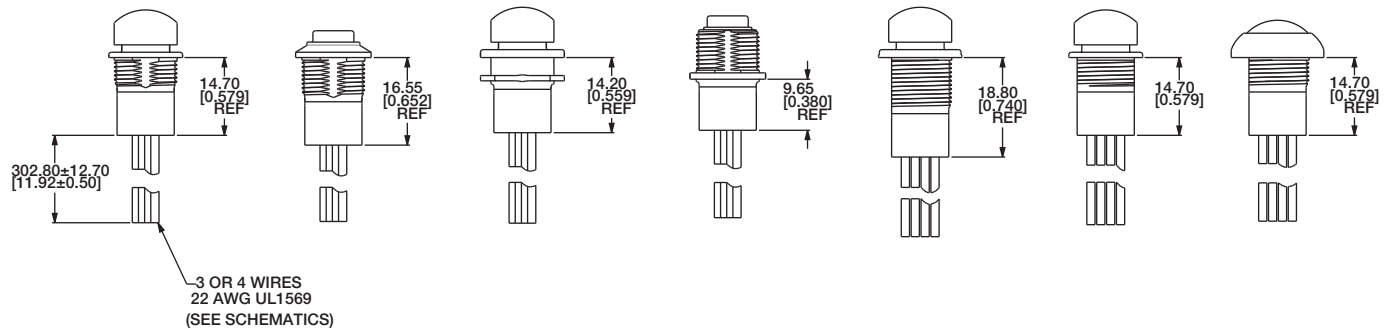


NP Series Sealed Industrial Pushbutton Switch

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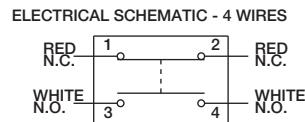
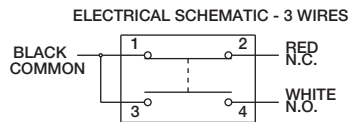
Pushbutton

TERMINATION



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

W4 4X 12" 22 AWG UL1569 WIRE (OVERMOLDED)



CONTACT MATERIAL

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

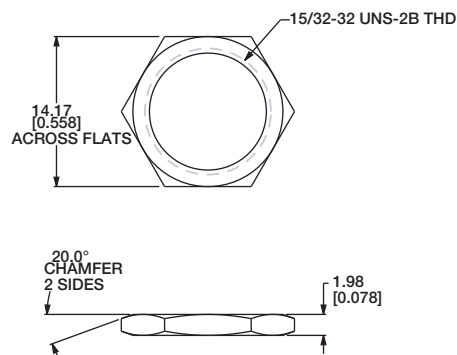
TERMINAL SEAL

E EPOXY

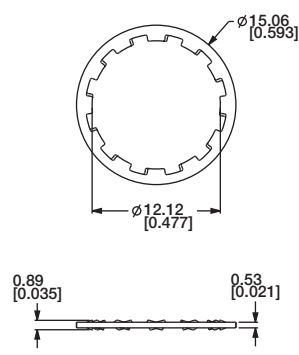
All models are epoxy sealed

HARDWARE

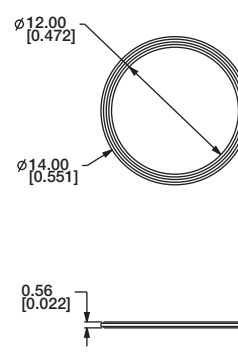
HEX NUT
707100201 Nickel-plated



LOCKWASHER
700302202



PANEL GASKET
851D02000



C&K



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