LIGHTED AND SEALED PUSHBUTTONS

COMMERCIAL GRADE LED LIGHTED AND SEALED AGAINST DUST AND MOISTURE

The LP3 offers rugged, sealed construction with the added benefit of reliable LED illumination.

The LP3 is a precision snap-action switch designed for use in Off-Highway, Material Handling, Industrial Controls, Marine, Medical and demanding Commercial applications. Choose from the standard mounting styles and electrical ratings, or contact us for custom configurations.

On sealed models, a silicone boot operating on our patented "rolling sleeve" principle protects the contact area against contamination at the button area. This boot provides long life and smooth operation over a wide temperature range. Sealed terminals protect the contact area from hostile environments and solder flux on both sealed and unsealed models.

High contact pressure, amazingly low (25 milliohms maximum, standard) contact resistance and extremely low contact bounce are all the result of the OTTO patented snap-action mechanism. Extra long electrical life and precise trip point offer added value and precision operation.

Quality Features:

- **Watertight to IP68. Moistureproof and dusttight to IP64 & M8805 Design 2**
- **LED lighted with the ability to accommodate 2, 6, 12 & 24 VDC power and include reverse voltage protection**
- **Tall & domed styled buttons in translucent white, red and amber permitting sublimated and pad printed legends**
- **Less than 25 milliohms contact resistance**
- **Quick disconnect terminals**
- **15/32" & 5/8" thread, press-fit and domed case styles available**

Momentary, Raised Dome Shown

Momentary, Front Mount Shown

Standard Characteristics/Ratings:

ELECTRICAL CIRCUIT: SPST-NO Double-break, SPST-NC Double-break, and SPDT Double-break.

ELECTRICAL RATINGS: *(at 28 VDC or 115 VAC, 60/400 Hz.)*

LOAD	AMPERES
Resistive	5 amp
Inductive	3 amp
Motor	3 amp
Lamp	1 amp
Low Level	10 mA (@30mV)

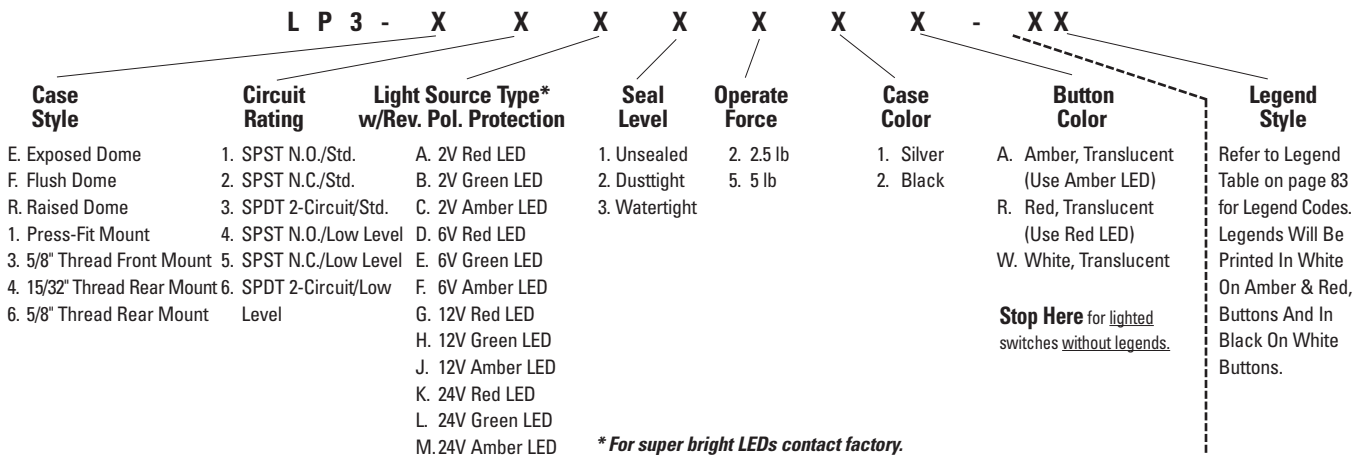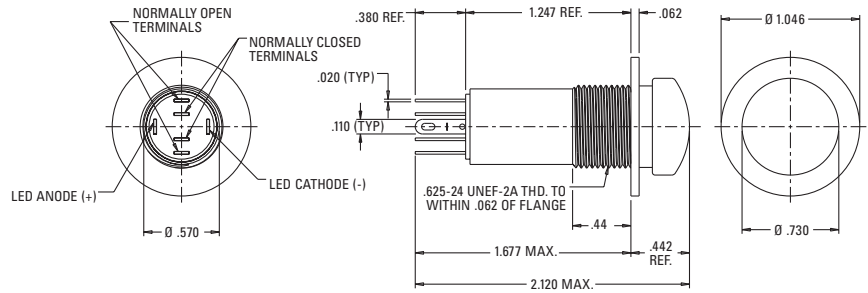|	
Electrical Life:	25,000 cycles minimum
Seal:	Moistureproof and dusttight to IP64 & M8805 Design 2, Watertight to IP68
Shock:	Impact shock 100 G IAW 8805
Operating Force:	2.5 ± 1 .5 lbs. and 5 ± 1.0 lbs.
Operating Temperature Range:	-55°C to + 85°C
Materials:	Case: Aluminum anodized black and clear Button: Thermoplastic
Mounting:	Hexnut, Lockwasher, and *Panel Seal Gasket *with watertight version only.
Terminals:	Faston quick disconnect, suitable for soldering Standard silver-plated with optional gold plating for low level applications

LP3 Part Number Code

L P 3 - X   X   X   X   X   X   X - X X

Case Style
E. Exposed Dome
F. Flush Dome
R. Raised Dome
1. Press-Fit Mount
3. 5/8" Thread Front Mount
4. 15/32" Thread Rear Mount
6. 5/8" Thread Rear Mount

Circuit Rating
1. SPST N.O./Std.
2. SPST N.C./Std.
3. SPDT 2-Circuit/Std.
4. SPST N.O./Low Level
5. SPST N.C./Low Level
6. SPDT 2-Circuit/Low Level

Light Source Type* w/Rev. Pol. Protection
A. 2V Red LED
B. 2V Green LED
C. 2V Amber LED
D. 6V Red LED
E. 6V Green LED
F. 6V Amber LED
G. 12V Red LED
H. 12V Green LED
J. 12V Amber LED
K. 24V Red LED
L. 24V Green LED
M. 24V Amber LED

* For super bright LEDs contact factory.

Seal Level
1. Unsealed
2. Dusttight
3. Watertight

Operate Force
2. 2.5 lb
5. 5 lb

Case Color
1. Silver
2. Black

Button Color
A. Amber, Translucent (Use Amber LED)
R. Red, Translucent (Use Red LED)
W. White, Translucent

Stop Here for lighted switches without legends.

Legend Style
Refer to Legend Table on page 83 for Legend Codes. Legends Will Be Printed In White On Amber & Red, Buttons And In Black On White Buttons.

COMMERCIAL GRADE LED LIGHTED AND SEALED AGAINST DUST AND MOISTURE

LP3-E
Momentary, Exposed Dome Button

NORMALLY OPEN TERMINALS
NORMALLY CLOSED TERMINALS
.380 REF.
1.247 REF.
.062
Ø 1.046
.020 (TYP)
.110 (TYP)
LED ANODE (+)
LED CATHODE (-)
.625-24 UNEF-2A THD. TO WITHIN .062 OF FLANGE
Ø .570
.44
.442 REF.
Ø .730
1.677 MAX.
2.120 MAX.

NOTE:
For indicator light only, see LP5 series

LP3-F
Momentary, Flush Dome Button

NORMALLY OPEN TERMINALS
NORMALLY CLOSED TERMINALS
.380 REF.
1.197 REF.
Ø 1.046
.020 (TYP)
.110 (TYP)
LED ANODE (+)
LED CATHODE (-)
.625-24 UNEF-2A THD. TO WITHIN .062 OF FLANGE
Ø .570
.492 REF
Ø .730
1.627 MAX.
2.120 MAX.
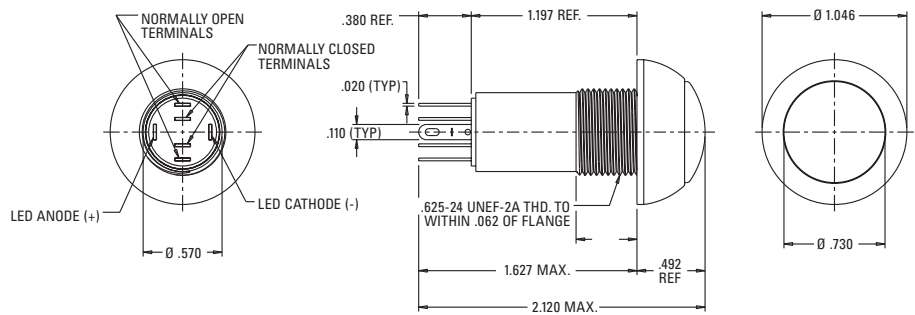
LP3-R
Momentary, Raised Dome Button

NORMALLY OPEN TERMINALS
NORMALLY CLOSED TERMINALS
2.120 MAX.
.380 REF.
1.177 REF.
.44
.020 (TYP)
.110 (TYP)
LED ANODE (+)
LED CATHODE (-)
.625-24 UNEF-2A THD. TO WITHIN .062 OF FLANGE
Ø 1.046
Ø .570
.512 REF
Ø .730
1.607 MAX.

LP3-1
Momentary, Press-fit Mount
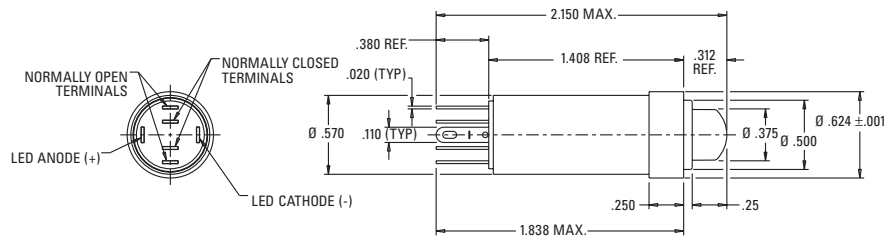
NORMALLY OPEN TERMINALS
NORMALLY CLOSED TERMINALS
2.150 MAX.
.380 REF.
1.408 REF.
.312 REF.
.020 (TYP)
.110 (TYP)
Ø .570
Ø .624 ±.001
LED ANODE (+)
LED CATHODE (-)
Ø .375
Ø .500
.250
.25
1.838 MAX.

LIGHTED AND SEALED PUSHBUTTONS

COMMERCIAL GRADE LED LIGHTED AND SEALED AGAINST DUST AND MOISTURE

LP3-3
Momentary, 5/8" Threaded Front Mount
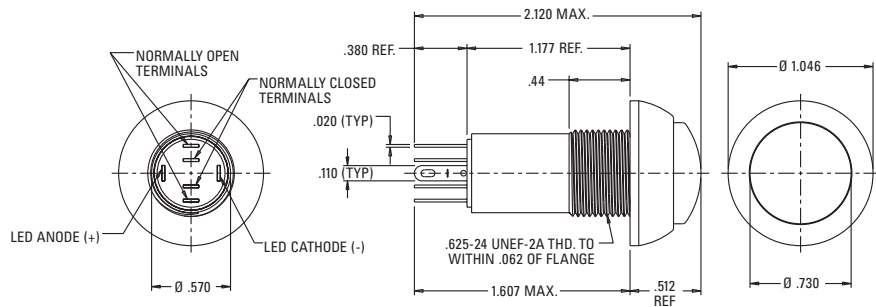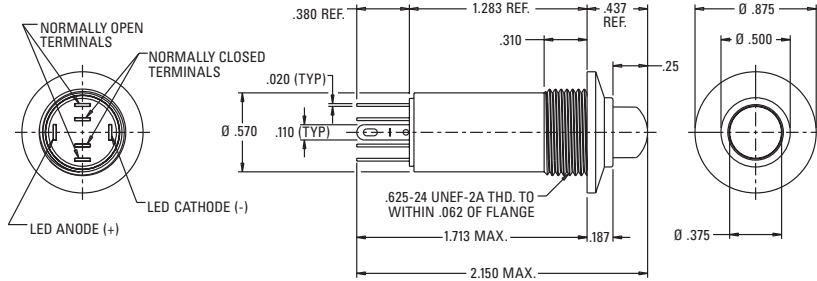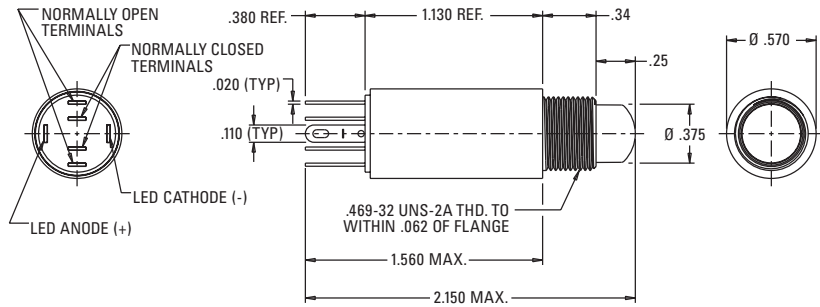
NORMALLY OPEN TERMINALS
NORMALLY CLOSED TERMINALS
.380 REF.
1.283 REF.
.437 REF.
Ø .875
.310
Ø .500
.020 (TYP)
.25
Ø .570
.110 (TYP)
LED CATHODE (-)
LED ANODE (+)
.625-24 UNEF-2A THD. TO WITHIN .062 OF FLANGE
1.713 MAX.
.187
Ø .375
2.150 MAX.

LP3-4
Momentary, 15/32" Threaded Rear Mount

NORMALLY OPEN TERMINALS
NORMALLY CLOSED TERMINALS
.380 REF.
1.130 REF.
.34
Ø .570
.020 (TYP)
.25
.110 (TYP)
Ø .375
LED CATHODE (-)
LED ANODE (+)
.469-32 UNS-2A THD. TO WITHIN .062 OF FLANGE
1.560 MAX.
2.150 MAX.

LP3-6
Momentary, 5/8" Threaded Rear Mount

NORMALLY OPEN TERMINALS
NORMALLY CLOSED TERMINALS
.380 REF.
1.033 REF.
.687 REF.
Ø .875
.020 (TYP)
.25
Ø .570
.110 (TYP)
Ø .375
LED CATHODE (-)
LED ANODE (+)
.625-24 UNEF-2A THD. TO WITHIN .062 OF FLANGE
Ø .500
1.463 MAX.
.375
2.150 MAX.

NOTE:
For indicator light only, see LP5 series

Specifications Subject To Change Without Notice