

SEALED ILLUMINATED DOME PUSHBUTTONS

MOMENTARY ACTION, ATTRACTIVE & HIGHLY RUGGEDIZED FOR WET & DUSTY ENVIRONMENTS

The LP7-D series pushbutton switches feature a contoured round dome style or square pushbutton. While sharing similar size and characteristics to the P9 series, the LP7-D offers added durability with its anodized aluminum alloy case.

Button versions include flush or raised round dome in glossy or matte finish and raised square in matte finish. The switch series features short behind panel depth. It also offers excellent mechanical and electrical performance while operating under severe conditions found in demanding applications.

The LP7-D Dome series offers one million mechanical operations and an electrical life of 25,000 operations.

The LP7-D series is manufactured to the highest standards and built to withstand harsh environments, offering anodized aluminum alloy cases with seal options of dusttight to IP64 or watertight to IP68S. The LP7-D series offers long life LED lighting in a variety of colors and can accommodate 2 & 12VDC power.

The LP7-D Dome series is a quality precision switch designed for use in panels, control grips, computers, instruments, heavy equipment and other demanding applications where attractive, highly ruggedized pushbutton switches are required.

Features:

- Flush and raised round buttons with glossy or matte finish in a variety of colors
- Raised square button option with matte finish in a variety of colors
- Watertight to IP68S; dusttight to IP64
- LED illuminated with the ability to accommodate 2 & 12VDC power
- 15/32" threaded case style
- RoHS compliant



Flush Dome

Also available with
Raised DomeSquare Dome
with Matte Finish

Standard Characteristics/Ratings:

| ELECTRICAL RATINGS: | | Sea Level @ 28VDC or 115VAC | |
|------------------------------|---|-----------------------------|--|
| Load | N.O./N.C. | S.P.D.T | |
| Resistive | 5A | 4A | |
| Inductive | 3A | 2A | |
| Motor | 3A | N/A | |
| DVW | 1050Vrms through switch contacts only | | |
| Logic Level | 10mA @ 5VDC | | |
| Electrical Life: | 25,000 cycles | | |
| LIGHTING: | | | |
| Light Source Voltage (DC) | Actual Voltage Nominal (DC) | Voltage Max (DC) | |
| 2** | 2 | 2.6 | |
| 12 | 13.5 | 14.5 | |
| Mechanical Life: | 1,000,000 cycles | | |
| Seal: | IP64 or IP68S | | |
| Operating Temp Range: | -40°C to +85°C | | |
| Operating Force: | 1.7 lbs. ± 0.5 lbs. | | |
| Total Travel: | 0.080 inches max | | |
| Overtavel: | 0.010 inches min | | |
| MATERIALS: | | | |
| Case: | Anodized aluminum alloy | | |
| Button: | Thermoplastic | | |
| Terminals: | Silver with gold plate | | |
| Mounting Hardware: | Hex nut, lockwasher and panel seal gasket when applicable | | |

LP7-D PART NUMBER CODE

| LP7-D | X | X | X | X | X | X | X | X |
|---|--|--------------|------------------------|------------------|-------------------|-----------------------|---|---|
| Button Style | Terminal Style/Seal | Circuit Form | Contact Rating | Light Source** | Case Color | Button Color | | |
| 1. Flush Dome Standard Finish - Lightpipe | 1. Standard Solder Terminal Dusttight | 1. N.O. | 1. Standard Current | A. 2V Red LED | 1. Clear Anodized | 1. Red | | |
| 2. Raised Dome Standard Finish - Lightpipe | 2. Standard Solder Terminal Watertight | 2. N.C. | 2. Logic Level Current | B. 2V Green LED | 2. Black Anodized | 2. Black | | |
| 3. Flush Dome Matte Finish - Lightpipe | 3. P.C. Pin Terminal Dusttight | 3. 2 Circuit | | C. 2V Amber LED | | 3. Orange | | |
| 4. Raised Dome Matte Finish - Lightpipe | 4. P.C. Pin Terminal Watertight | | | D. 2V Blue LED | | 4. Yellow | | |
| 5. Raised Square Matte Finish - Lightpipe | | | | E. 2V White LED | | 5. Green | | |
| 6. Flush Dome Standard Finish - Fully Illuminated* | | | | F. 12V Red LED | | 6. Blue | | |
| 7. Raised Dome Standard Finish - Fully Illuminated* | | | | G. 12V Green LED | | 7. Violet | | |
| | | | | H. 12V Amber LED | | 8. Gray | | |
| | | | | J. 12V Blue LED | | 9. White | | |
| | | | | K. 12V White LED | | A. Translucent White* | | |

Your official representative



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Indicate. Control. Connect.

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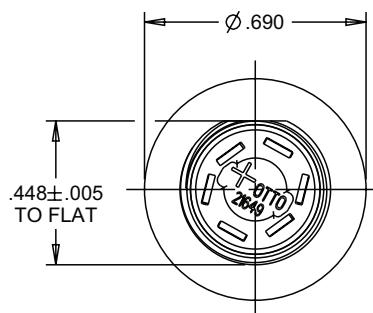
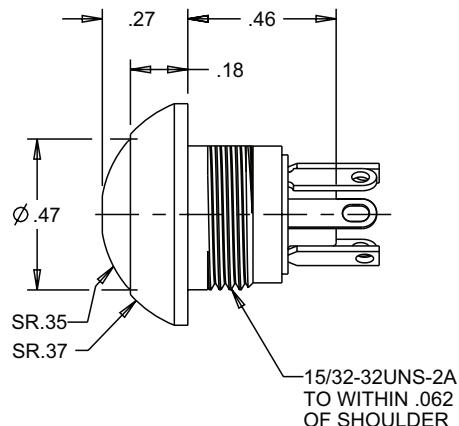
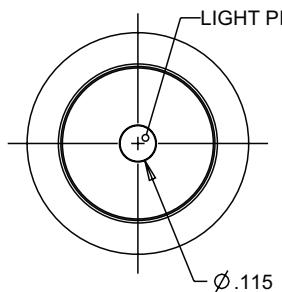
* Full illumination button styles available with translucent Button Color selection A only.

** 2V LED's are intended for use with an external resistor. See LED voltage chart in appendix for details on the approximate value of the resistor.

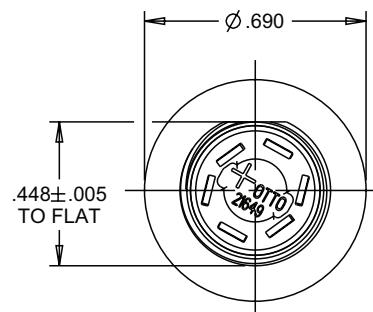
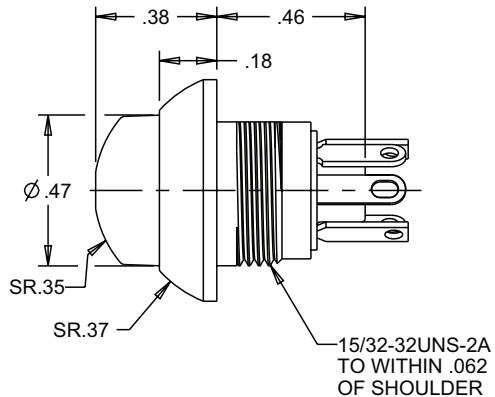
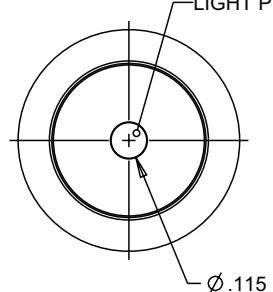
MOMENTARY ACTION, ATTRACTIVE & HIGHLY RUGGEDIZED FOR WET & DUSTY ENVIRONMENTS

Button Options

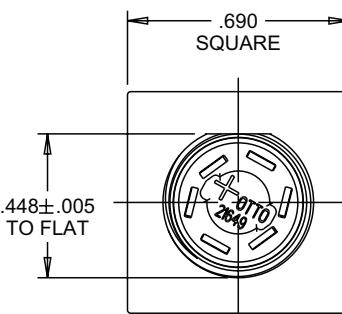
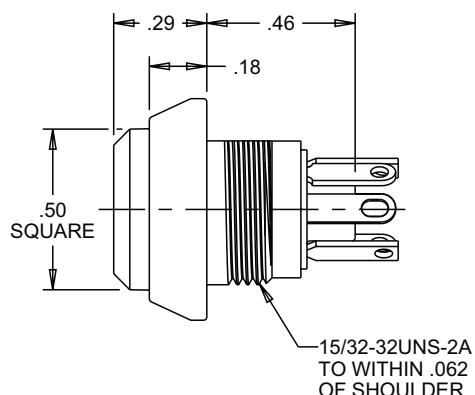
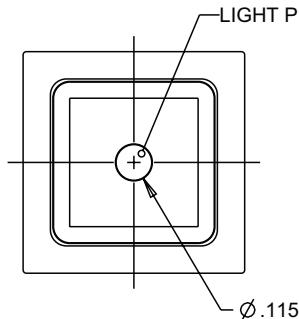
FLUSH DOME
(STYLE 1 & 3)



RAISED DOME
(STYLE 2 & 4)



SQUARE DOME
(STYLE 5)



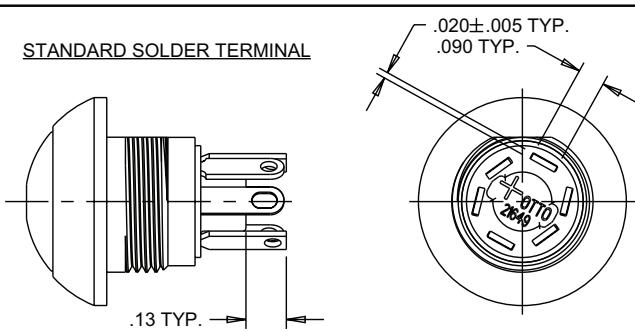
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LP7-D
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Terminal Options

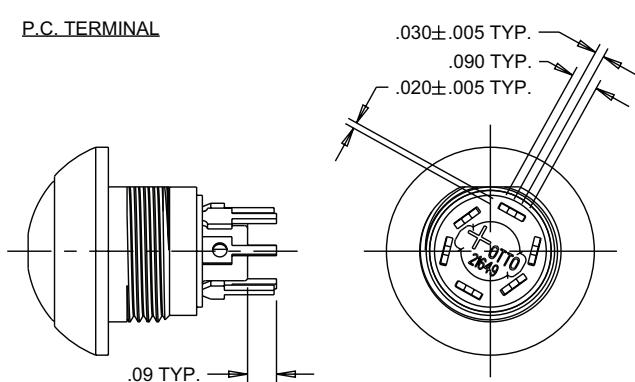
STANDARD SOLDER TERMINAL



N.O. TERMINALS: ROUND END, SLOTTED HOLE (.084 X .055)
N.C. TERMINALS: SQUARE END, ROUND HOLE (ϕ .055)
LED TERMINALS: ROUND END, ROUND HOLE (ϕ .055)

(PLUS SYMBOL "+" DENOTES LOCATION OF LED TERMINAL ANODE
AND LED TERMINAL CATHODE IS 180° OPPOSITE OF ANODE TERMINAL)

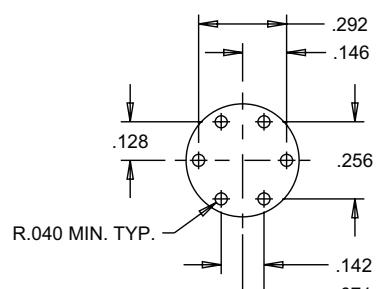
P.C. TERMINAL



N.O. TERMINALS: ROUND HOLE (ϕ .048)
N.C. TERMINALS: NO HOLE
LED TERMINALS: ROUND END, ROUND HOLE

(PLUS SYMBOL "+" DENOTES LOCATION OF LED TERMINAL ANODE
AND LED TERMINAL CATHODE IS 180° OPPOSITE OF ANODE TERMINAL)

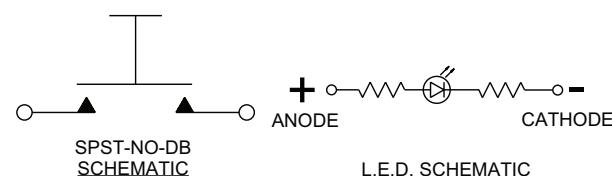
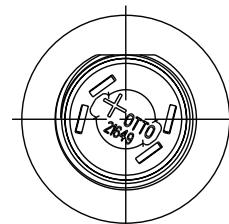
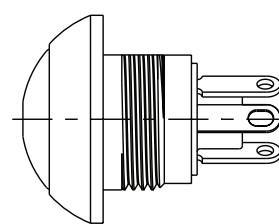
TERMINALS ORIENTED TO CASE FLAT AS SHOWN WITHIN $\pm 10^\circ$
(P.C. TERMINALS ONLY)



COMPONENT SIDE P.C. MOUNTING
PATTERN, CASE FLAT ON ABOVE
AS DEPICTED IN SWITCH VIEW

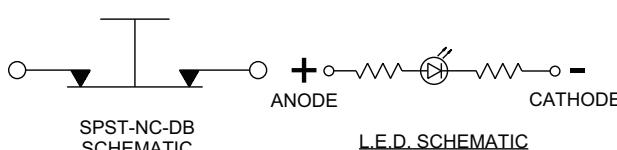
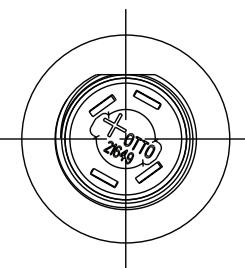
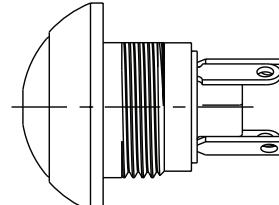
Circuit Options

NORMALLY OPEN



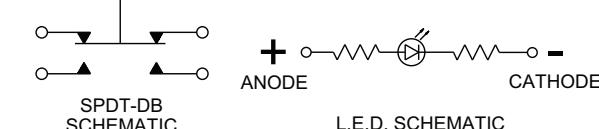
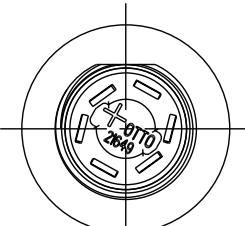
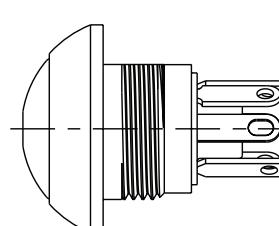
L.E.D. SCHEMATIC

NORMALLY CLOSED



L.E.D. SCHEMATIC

2 CIRCUIT



L.E.D. SCHEMATIC