

## MOMENTARY ACTION COMMERCIAL GRADE LED ILLUMINATED &amp; WATERTIGHT SEALED

The OTTO LP9 Lighted Dome series is a quality precision switch designed for use in panels, control grips, instruments, heavy equipment and other demanding applications where attractive, rugged, lighted pushbutton switches are required.

The LP9 series offers a positive tactile feedback, signaling the operator when the switch is operated with the added benefit of reliable LED illumination. The LP9 series offers four button versions; flush and raised profile with either a glossy or matte finish. It also comes with a threaded case for hex nut mounting while providing a short behind panel depth.

The LP9 series is constructed to meet IP68S watertight seal. Expect 25,000 operations at full rated load of 5 amps resistive or 3 amps inductive; 500,000 operations at 500mA/200mA resistive.

The LP9 series are momentary snap-action double break switches, available in standard and low operate forces. The LED is available in five colors and has the ability to accommodate 2 or 12VDC.

## Features:

- **Watertight to IP68S**
- **LED lighted with the ability to accommodate 2 or 12VDC**
- **LED available in 6 colors**
- **Flush & raised button style**
- **Matte or glossy button finish**
- **Positive tactile feedback contact transfer**
- **Withstands extreme shock & vibration**
- **Short behind panel depth**
- **RoHS/WEEE/Reach compliant**



Flush Dome

Also available with  
Raised Dome

### Standard Characteristics/Ratings:

| ELECTRICAL RATINGS:       |                                                                                                       | Sea Level @ 28VDC or 115VAC, 60/400Hz |                  |
|---------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------|------------------|
| Load                      | N.O./N.C.                                                                                             | Cycles                                | Operating Force  |
| Resistive                 | 5A                                                                                                    | 25,000                                | Standard         |
| Inductive                 | 3A                                                                                                    | 25,000                                | Standard         |
| Resistive                 | 500mA                                                                                                 | 500,000                               | Standard         |
| Resistive                 | 200mA                                                                                                 | 500,000                               | Low or Standard  |
| DWV                       | 1050Vrms through switch contacts only                                                                 |                                       |                  |
| Low Level                 | 10mA @ 30mV                                                                                           | 25,000                                |                  |
| Electrical Life:          | See Rating Chart                                                                                      |                                       |                  |
| 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:                     | IP68S                                                                                                 |                                       |                  |
| Operating Temp Range:     | -55°C to +85°C                                                                                        |                                       |                  |
| Operating Force:          | 1.7 +/- 0.5 lb. (standard force)<br>12 +/- 4 oz (low force)                                           |                                       |                  |
| Total Travel:             | 0.080 inches max                                                                                      |                                       |                  |
| Overtravel:               | 0.010 inches min                                                                                      |                                       |                  |
| MATERIALS:                |                                                                                                       |                                       |                  |
| Case:                     | Thermoplastic                                                                                         |                                       |                  |
| Button:                   | Thermoplastic                                                                                         |                                       |                  |
| Terminals:                | Silver with gold plate                                                                                |                                       |                  |
| Mounting Hardware:        | Hex nut and lockwasher for round/threaded style case only<br>Panel gasket for snap-in style case only |                                       |                  |

### LP9 PART NUMBER CODE

| LP9             | -                 | X              | X            | X                        | X                     | X           | X            | X |
|-----------------|-------------------|----------------|--------------|--------------------------|-----------------------|-------------|--------------|---|
| Button Style*   | Case Style*       | Terminal Style | Circuit Form | Operating Force          | Light Source          | Case Color  | Button Color |   |
| 1. Flush        | 1. Round/Threaded | 1. Solder      | 1. N.O.      | 1. Standard Snap-Action  | A. 2V Red LED         | 1. Red      | 1. Red       |   |
| 2. Raised       | 2. Snap-In        | 2. PC Pin      | 2. N.C.      | 2. Low Force Snap-Action | B. 2V Green LED       | 2. Black    | 2. Black     |   |
| 3. Flush Matte  |                   |                | 3. 2 Circuit |                          | C. 2V Amber LED       | 3. Orange** | 3. Orange    |   |
| 4. Raised Matte |                   |                |              |                          | D. 2V Blue LED        | 4. Yellow** | 4. Yellow    |   |
|                 |                   |                |              |                          | E. 2V White LED       | 5. Green**  | 5. Green     |   |
|                 |                   |                |              |                          | F. 12V Red LED        | 6. Blue**   | 6. Blue      |   |
|                 |                   |                |              |                          | G. 12V Green LED      | 7. Violet** | 7. Violet    |   |
|                 |                   |                |              |                          | H. 12V Amber LED      | 8. Gray**   | 8. Gray      |   |
|                 |                   |                |              |                          | J. 12V Blue LED       | 9. White    | 9. White     |   |
|                 |                   |                |              |                          | K. 12V White LED      |             |              |   |
|                 |                   |                |              |                          | L. 2V Deep Green LED  |             |              |   |
|                 |                   |                |              |                          | M. 12V Deep Green LED |             |              |   |

\* Button and case will be of the same texture.

For all mixed gloss/matte combination options, contact factory.

\*\* For minimum requirement, contact factory.

# ILLUMINATED SEALED DOME PUSHBUTTONS

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