OptoSupply
Light It Up

# 12mm Metal Push-button Switch White LED

## OSW12F12-E

## ▪Description

- Mounting hole size: 12mm
- LED light color: White
- LED type: Bi-directional LED lamp beads (AC/DC)
- Protection level: IP65/IK09
- Switch combination: 1NO
- Operation type: Self-locking
- Shell material: Nickel plated brass
- Base material: Engineering plastics

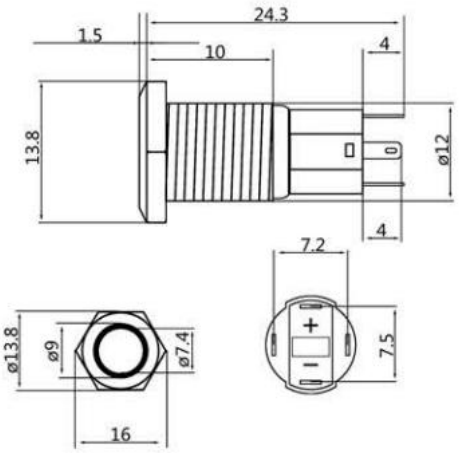
## ▪Applications

- Industrial Automation Equipment
- Vehicle and Transportation Equipment
- Home Appliance and Commercial Equipment

## ▪Product Picture



## ▪Outline Dimension




**Unit:mm**

**Tolerance:±0.30mm**

## ▪Switching Structure Description

| Type | Symbol | Schematic Diagram |
|---|---|---|
| 1NO |  |  |

*Description: Double-break slow-moving contact switch with two terminals

## ▪Absolute Maximum Rating

| Item | Value |
|---|---|
| Rated insulation voltage | AC 250V |
| Heating current | 3A |
| Rated voltage | DC 12-24V |
| Resistive load | 2-3A |
| Inductive load | 0.8-1.2A |
| Contact resistance | ≤50mΩ |
| Insulation resistance | ≥1000MΩ |
| Insulation strength | 1000V AC |
| Operation stroke connected about | 0.9mm |
| Total travel about | 2.5mm |
| Operating temperature | -30 ~ +55℃ |
| Storage temperature | -30 ~ +55℃ |

## ▪LED Electrical -Optical Characteristics (Ta=25℃)

| $V_F$ (V) | | | $I_F$ (mA) | | | Iv(mcd) | | | CCT(K) | | | 2θ1/2(deg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $V_F$ =18V | | | | | | |
| Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | Typ. |
| 12 | 18 | 24 | 9 | 15 | 20 | 1000 | 1800 | 3000 | 10000 | 14000 | 20000 | 120 |