Specifications

| Electrical Ratings | $20 \mathrm{~A} @ 12 \mathrm{VDC}$, resistive, 25K cycles |
| :--- | :--- |
|  | 10 A @ 24VDC, resistive, 100K cycles |
|  | 15 A @ 24VDC, resistive, 25 K cycles |
|  | 10 A @ 125VAC, resistive, 25 K cycles |
|  | $5 \mathrm{~A} @ 250 \mathrm{VAC}$, resistive, 25 cycles |
| Sealing Degree | IP67 |
| Electrical Life | 50,000 cycles typical |
| Contact Resistance | $\leq 50 \mathrm{~m} \Omega$ initial |


| Actuation Force | $550 \pm 50 \mathrm{gF}$ |
| :--- | :--- |
| Actuation Travel | $2.5 \pm .3 \mathrm{~mm}$ |
| Dielectric Strength | 2000 Vrms min contact to contact <br> 2000 Vrms min contact to LED |
| Insulation Resistance | $\geq 100 \mathrm{M} \Omega \mathrm{min}$ |
| Operating Temperature | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| Storage Temperature | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |

## Materials

| Actuator | Stainless Steel or Anodized Aluminum |
| :--- | :--- |
| LED Lens | Polycarbonate (PC) |
| Threaded Body | Stainless Steel or Anodized Aluminum |
| Terminal Support | Polybutylene Terephthalate (PBT) |
| Inner Switch Body | Polycarbonate (PC) |
| Contacts | Gold Plate over Silver |
| Terminals | Gold Plate over Nickel Plate over Copper Alloy |
| Hardware | One Hex Nut \& One "O" Ring Supplied |

## Custom Capabilities Contact Factory



Illuminated Anti-Vandal Pushbutton - 19mm

## Ordering Information



Dimensions - Momentary Function


## Illuminated Anti-Vandal Pushbutton - 19mm

Dimensions - Latching Function


Illuminated Anti-Vandal Pushbutton - 19mm

## Termination

.100" Quick Connect, standard


Screw Terminals


Illuminated Anti-Vandal Pushbutton - 19mm

## Termination

WA1, Wire Assembly, SPST N.O.
Momentary Function, Non-Illuminated


Latching Function, Non-Illuminated


| Wire Configuration |  |
| :---: | :---: |
| Switch Terminal | Wire Color |
| Terminal 3 | Black |
| Terminal 4 | Black |



## Termination

WA1, Wire Assembly, SPST N.O.
Momentary Function, Illuminated


Latching Function, Illuminated


| Wire Configuration |  |
| :---: | :---: |
| Switch Terminal | Wire Color |
| LED + Terminal | Orange |
| LED - Terminal | Black |
| Terminal 3 | Red |
| Terminal 4 | Brown |



Illuminated Anti-Vandal Pushbutton - 19 mm

## Termination

WA2, Wire Assembly, SPDT, Non-Illuminated
Momentary Function


Jumper Wire, GXL Automotive Wire, 14AWG
Stranded, Connected to Terminal 2 \& Terminal 4
Hidden inside epoxy shell
Latching Function


Jumper Wire, GXLAutomotive Wire, 14AWG,
Stranded, Connected to Terminal 2 \& Terminal 4 Hidden inside epoxy shell

| Wire Configuration |  |
| :---: | :---: |
| Switch Terminal | Wire Color |
| Terminal 1 | White |
| Terminal 2 | Blue |
| Terminal 3 | Green |



## Termination

WA2, Wire Assembly, SPDT, Illuminated
Momentary Function


Jumper Wire, GXLAutomotive Wire, 14AWG
Stranded, Connected to Terminal 2 \& Terminal 4
Hidden inside epoxy shell
Latching Function


Jumper Wire, GXLAutomotive Wire, 14AWG
Stranded, Connected to Terminal 2 \& Terminal 4
Hidden inside epoxy shell

| Wire Configuration |  |
| :---: | :---: |
| Switch Terminal | Wire Color |
| LED + Terminal | Red |
| LED - Terminal | Black |
| Terminal 1 | White |
| Terminal 2 | Blue |
| Terminal 3 | Green |



Illuminated Anti-Vandal Pushbutton - 19mm

## Schematics

SPST NO + SPST NC, No LED


SPST NO + SPST NC, Single Color LED $\operatorname{SPST}$ NO + SPST NC, Dual Color LED



## Panel Cut-Out

$\varnothing 19.00$ [Ø0.75]

## LED Characteristics

| LED Ratings |  | Color |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | R | Y | G | B | O | W | Units |
| Reverse Voltage | $\mathrm{V}_{\mathrm{R}}$ | 5 | 5 | 5 | 5 | 5 | 5 | V |
| Forward Curent (avg) | $\mathrm{I}_{\mathrm{F}}$ | 25 | 25 | 30 | 30 | 25 | 30 | mA |
| Forward Current (peak) | $\mathrm{I}_{\text {FS }}$ | 120 | 120 | 160 | 160 | 120 | 160 | mA |
| Reverse Current $\mathrm{V}_{\mathrm{R}}=5 \mathrm{~V}$ | $\mathrm{I}_{\mathrm{R}}$ | 10 | 10 | 10 | 10 | 10 | 10 | $\mu \mathrm{A}$ |
| Power Dissipation | $\mathrm{P}_{\mathrm{T}}$ | 80 | 80 | 120 | 120 | 80 | 120 | mW |
| Operating \& Storage Temperature | $\mathrm{T}_{\text {A }}$ | -40~+85 |  |  |  |  |  | $\mathrm{C}^{\circ}$ |
| Forward Voltage (typ) $I_{F}=20 \mathrm{~mA}$ | $V_{F}$ | 2.1 | 2.1 | 3.3 | 3.3 | 2.0 | 3.0 | V |
| Forward Voltage (max) $\mathrm{I}_{\mathrm{F}}=20 \mathrm{~mA}$ | $V_{F}$ | 2.4 | 2.5 | 3.6 | 3.6 | 2.3 | 3.6 | V |
| Wavelength at Peak Emmission $\mathrm{I}_{\mathrm{F}}=20 \mathrm{~mA}$ | $\lambda_{P}$ | 635 | 592 | 516 | 463 | 606 | n/a | nm |
| Spectral Line Half-Width $\mathrm{I}_{\mathrm{F}}=20 \mathrm{~mA}$ | $\Delta \lambda$ | 14 | 12 | 28 | 20 | 12 | n/a | nm |
| Luminous Intensity, $\mathrm{I}_{\mathrm{F}}=20 \mathrm{~mA}$ | LI | 120 | 120 | 170 | 100 | 120 | 700 | mcd |
| Viewing Angle | $\Theta$ | 145 | 145 | 145 | 145 | 145 | 145 | deg |

