## OmROn

## Hinged Tactile Switch

## Through-hole-mounting Switches with Hinges for a Sharp Snap Action

- Quick, superior snap action through hook-type hinge construction.
- Available with 1 or 2 LEDs or without LEDs.
- The hinge button is available in a wide variety of colors (five standard colors).


## RoHS Compliant



- List of Models

| Operation type | Contact material | Operating force (OF) | Color of hinged button | Box |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Model | Minimum packing unit |
| Non-lighted: | Silver plated | 1.27 N \{130 gf | Ivory | B3J-1000 |  |
| B3J-1000 Series |  |  | Black | B3J-1100 |  |
|  |  |  | Orange | B3J-1200 | 300 pcs |
|  |  |  | Yellow | B3J-1300 |  |
|  |  |  | Blue | B3J-1400 |  |


| Operation type | Contact material | Operating force (OF) | Color of hinged button | Box |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | LED color |  |  | Minimum packing unit |
|  |  |  |  | Red | Yellow | Green |  |
| One LED: <br> B3J-2000 Series <br> B3J-3000 Series <br> B3J-4000 Series | Silver plated | 1.27 N 1130 gf$\}$ | Ivory | B3J-2000 | B3J-3000 | B3J-4000 | 300 pcs |
|  |  |  | Black | B3J-2100 | B3J-3100 | B3J-4100 |  |
|  |  |  | Orange | B3J-2200 | B3J-3200 | B3J-4200 |  |
|  |  |  | Yellow | B3J-2300 | B3J-3300 | B3J-4300 |  |
|  |  |  | Blue | B3J-2400 | B3J-3400 | B3J-4400 |  |


| Operation type | Contact material | Operating force (OF) | Color of hinged button | Box |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | LED color |  |  | Minimum packing unit |
|  |  |  |  | Red/Yellow | Red/Green | Yellow/Green |  |
| Two LEDs: B3J-5000 Series <br> B3J-6000 Series <br> B3J-7000 Series | Silver plated | 1.27 N \{130 gf $\}$ | Ivory | B3J-5000 | B3J-6000 | B3J-7000 | 300 pcs |
|  |  |  | Black | B3J-5100 | B3J-6100 | B3J-7100 |  |
|  |  |  | Orange | B3J-5200 | B3J-6200 | B3J-7200 |  |
|  |  |  | Yellow | B3J-5300 | B3J-6300 | B3J-7300 |  |
|  |  |  | Blue | B3J-5400 | B3J-6400 | B3J-7400 |  |

## Ratings/Characteristics

| Rating (resistive load) | 1 to $50 \mathrm{~mA}, 3$ to 24 VDC |
| :--- | :--- |
| Minimum applicable load (reference value) | $10 \mu \mathrm{~A}$ at 1 VDC (resistive load) |
| Ambient operating temperature | $-25^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ at $60 \% \mathrm{RH}$ max. (with no icing or condensation) |
| Ambient operating humidity | $35 \%$ to $85 \%$ (at +5 to $+35^{\circ} \mathrm{C}$ ) |
| Contact form | $\mathrm{SPST}-\mathrm{NO}$ |
| Contact resistance (initial value) | $100 \mathrm{~m} \Omega$ max. |
| Insulation resistance | $100 \mathrm{M} \Omega$ min. (at 250 VDC with insulation tester) |
| Dielectric strength | $500 \mathrm{VAC}, 50 / 60 \mathrm{~Hz}$ for 1 min |
| Bounce time | 5 ms max. |
| Vibration resistance | Malfunction: 10 to $55 \mathrm{~Hz}, 1.5-\mathrm{mm}$ double amplitude |
| Shock resistance | Destruction: $1,000 \mathrm{~m} / \mathrm{s}^{2}$ approx. 100 G$\}$ max. <br> Malfunction: $100 \mathrm{~m} / \mathrm{s}^{2}$ \{approx. 10 G$\}$ max. <br> Durability <br> Weight <br> Degree of protection <br> Washing Approx. 1.5 to 1.7 g |

## ■ Operating Characteristics

| Operating force (OF) | $1.27 \pm 0.49 \mathrm{~N}\{130 \pm 50 \mathrm{gf}\}$ |
| :--- | :--- |
| Releasing force (RF) | $0.29 \mathrm{~N}\{30 \mathrm{gf}\} \mathrm{min}$. |
| Pretravel (PT) | $0.3^{+0.2} /-0.1 \mathrm{~mm}$ |

## ■ LED Specifications

| Item |  | Red | Yellow | Green |
| :--- | :--- | :--- | :--- | :--- |
| Forward voltage VF | Standard value (V) | 2.0 | 2.0 | 2.1 |
| Forward current IF | Standard value (mA) | 20 | 20 | 20 |
| Permissible Ioss P | Absolute maximum value (mW) | 84 | 84 | 84 |
| Reverse voltage VR | Absolute maximum value (V) | 5 | 5 | 5 |

Note: Since the built-in LED does not contain any limiting resistors, externally connect limiting resistors within the limits shown in the above table.

- Dimensions (Unit: mm)


## Types with no LED



1 LED Types
B3J-2 $\square 00$
B3J-3 $\square 00$
B3J-4 $\square 00$


Terminal Arrangement /Internal Connections (Top View)


$\stackrel{-13.6 \pm 0.2 \longrightarrow \mid}{ }$


## Panel Cutout

Terminal Arrangement /Internal Connections (Top View)




## 2 LED Types

## B3J-5 $\square 00$

B3J-6 $\square 00$
B3J-7 $\square 00$


PCB Processing Dimensions
(Reference Only)
(Top View)
(for positioning boss)


PCB Processing Dimensions
(Reference Only)
(Top View)


## Precautions

Be sure to read the safety precautions common to all Tactile Switches for correct use.

[^0]Note: Do not use this document to operate the Unit.

## X-ON Electronics

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Click to view similar products for Tactile Switches category:
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Other Similar products are found below :
5GTH92001 5GTH9202242 1-1977120-4 ADTSA62RV ADTSA63KV ADTSA644NV ADTSMW66NV ADTSMW67RV B3F-3123 B3F-
6055A B3F-B32-01-KIT 1977177-8 1977266-1 ADTS644KV ADTSA61RV ADTSA62KV ADTSA63NV ADTSA63RV
ADTSM21NSVTR ADTSM32NVTR ADTSM63SVTR ADTSM644KVTR ADTSMW64RV ADTSMW69NV FSMRA4JHA04
GS4.70F300QP 3ESH9R 506E00201 MJTP1164TR 3FTL600RAS 3FTL640RAS Y96K132V0FPLFS 101-TS5022T1601-EV 5GSH92001 KSJ0A231 80SH LFG EVQ-P1D05K MJTP1162TR ADTSM63KV 2-1977120-7 TSJW-5.2-260-TR KMT011MNGJLHS B3WN6002S ADTSA648RV 70-201.0 ADTSM62KSVTR ATA600VTR ADTSG66RV ADTS61NV ADTSM62KVTR ADTSM25KSVB


[^0]:    - Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.
    - Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.

