## Panel Sealed 5 Amp Pushbutton Switches

The ITW SA50 series pushbutton offers the utmost in choices of button colours and lighting switching. These 5 AMP sealed switches have a positive snap action feel. They are ideal for rugged applications that good looks and long life.

## Applications

- Office equipment
- Medical equipment
- Industrial machinery
- Mass transportation
- Food processing equipment
- Outdoor Controls
- Joystick Control


## Series SA50



## Key Features:

- Diameter 16 mm
- Panel sealed to IP67
- Up to 5Amp by UL61058 Certify
- Large choice of button colours
- Snap Action / Momentary Action
- Positive Tactic Feedback
- Choice of LED colours (or non-illuminated versions)

Ordering Information:


## Series SA50: Panel Sealed 5 Amp Pushbutton Switches

Product Drawings


## Mechanical / Electrical Characteristics:

## Circuit: <br> SPDT-DB ( Form X)

Pretravel (Nominal):
0.050 inches [ 1.27 mm ]

Overtravel (Nominal):
0.010 inches [ 0.25 mm ]

Total Travel (Nominal):
0.060 inches [ 1.52 mm ]

Operating Force (Nominal):
5.15 N [525g]

Release Force (Nominal):
3.45 N [340g]

Panel Thickness:
Bushing Mount:
0.020 " - 0.118" [0.5-3.0mm]

Contacts:
Silver Plated
Nut Torque Force:
Max 5.2 lb -in [ $6 \mathrm{kgf-cm}$ ]
Actuator Ingress Protection:
IP67 (Front Panel)
Operating Temperature:
$-40^{\circ} \mathrm{F}$ to $+185^{\circ} \mathrm{F}\left[-40^{\circ} \mathrm{C}\right.$ to $\left.+85^{\circ} \mathrm{C}\right]$
Life, Mechanical (Nominal):
1,000,000 Cycles
Current Ratings (Nominal):
5A@ 28 VDC

## Electro-Mehanical:

Dielectric Strength:
1,000 VAC
Insulation Resistance:
1G $\Omega$
Contact Resistance:
Max $50 \mathrm{~m} \Omega$ (Non-Wirelead) Max $250 \mathrm{~m} \Omega$ (Wirelead)

LED Specifications

| LED SPECIFICATION |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| LED CODE | LED COLOR | CIRCUITRY | Vf (VDC) | $\begin{gathered} \left.\mathrm{If}^{(\mathrm{mA}}\right) \end{gathered}$ |
| R | RED |  | 1.8~2.5 | 20 |
| B | BLUE |  | 2.8~3.5 | 20 |
| G | GREEN | + | 2.8~3.5 | 20 |
| Y | YELLOW |  | 1.8~2.5 | 20 |
| W | WHITE |  | 2.8~3.5 | 20 |
| Notes: <br> 1. Lead Soldering Temperature ( 4 mm above from body): $280^{\circ} \mathrm{C}$ for 5 seconds <br> 2. Head Soldering Temperature ( 4 mm above from body): $320^{\circ} \mathrm{C}$ for 3 seconds |  |  |  |  |


| WIRELEADS TYPE | WIRELEADS SPECIFICATION | SW | SW | LED |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | TERMINAL | TERMINAL |  |  |
|  |  | NO | NC | + | - |
| ILLUMINATION | AWG24 / UL1007 | BLUE | YELLOW | RED | BLACK |
| NON-ILLUMINATION |  | BLUE | Yellow | - | - |

Sensors, Switches, Electronic Controls

