

# Change Notice

# JF Series

## Changes to LED Specifications for JF Series Full Face Illuminated Tactiles

Type of Change:

- Engineering     Part Number  
 Product         Appearance



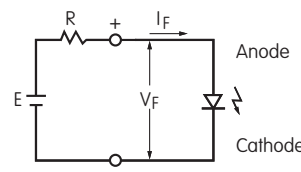
**JF Series full face illuminated tactiles will have LED revisions.**

The LED specifications for JF Series full face illuminated tactile switches will be undergoing changes. This will result in revisions to the electrical values, and will apply to yellow and green LEDs for standard or custom switches. Following is the comparison between the specifications before and after the changes. Effected standard part numbers are shown below.

CHANGES TO LED SPECIFICATIONS FOR JF SERIES FULL FACE ILLUMINATED TACTILES					
LEDs are an integral part of the switch and are not available separately. Electrical specifications are determined at a basic temperature of 25°C.		Before Change		After Change	
		<b>E</b>	<b>F</b>	<b>E</b>	<b>F</b>
Color		Yellow	Green	Yellow	Green
Maximum Forward Current	$I_{FM}$	30mA	30mA	30mA	30mA
Typical Forward Current	$I_F$	20mA	20mA	20mA	20mA
Forward Voltage	$V_F$	2.1V	2.3V	2.1V	2.1V
		$I_F = 20\text{mA}$	$I_F = 20\text{mA}$	$I_F = 20\text{mA}$	$I_F = 20\text{mA}$
Maximum Reverse Voltage	$V_{RM}$	4V	4V	4V	4V
Current Reduction Rate Above 25°C	$\Delta I_F$	0.40mA/°C	0.40mA/°C	0.40mA/°C	0.40mA/°C
Ambient Temperature Range		-25° ~ +70°C		-25° ~ +70°C	

### Notes

- The LED circuit is isolated and requires an external power source.
- For best results and safe use of the LEDs, the supply voltage should be more than the LED forward voltage. In addition, an appropriately valued ballast resistor should be used. Without the ballast resistor, the LED will be damaged or destroyed. The resistor value can be calculated by using the formula shown here.
- There are no changes to the switches' external dimensions.
- Contact information is below if more details are needed.



$$R = \frac{E - V_F}{I_F}$$

Where: R = Resistor Value (Ohms)  
 E = Source Voltage (V)  
 $V_F$  = Forward Voltage (V)  
 $I_F$  = Forward Current (A)

### Effected Standard Part Numbers

JF15AP1EE

JF15AP1FF

### Effective Date

Changes to LED specifications for JF Series Full Face Illuminated Tactiles will be effective December 2021.

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