Change Notice

CN-0271 **B** Series

Change to B Illuminated Toggles LED Specifications

Type of Change:

- ☑ Engineering Part Number
- Product ☑ Appearance

The B Illuminated Toggles will have a change to the LED specifications for Red, Amber, Green, and bicolor Red/Green. The change will effect all illuminated models, both standard and custom. The specification changes are outlined below, followed by effected standard part numbers.



LED Changes for **B** Illuminated Toggles

LED COLORS & SPECIFICATIONS

LEDs are supplied as an integral part of illuminated devices and are not available separately. The electrical specifications shown here are determined at a basic temperature of 25°C.

(5) 0		Before Change				After Change			
(5) O (4) Red		C	D	F	CF	С	D	F	CF
(6) Green Colo	or	Red	Amber	Green	Red/Green	Red	Amber	Green	Red/Green
Maximum Forward Current	FM	30mA	30mA	20mA	30mA/20mA	30mA	30mA	25mA	30mA/ <mark>25mA</mark>
Typical Forward Current	F	20mA	20mA	10mA	20mA/10mA	20mA	20mA	20mA	20mA/ <mark>20mA</mark>
Forward Voltage	, [1.9V	1.9V	3.4V	1.9V/3.4V	1.95V	2.0V	3.3V	1.95V/3.3V
	F	(I _F = 20)	(I _F = 20)	(I _F = 10)	(I _F = 20/10)	(I _F = 20)	(I _F = 20)	(I _F = 20)	(I _F = 20/20)
Maximum Reverse Voltage	RM	5V	5V	5V	5V/5V	5V	5V	5V	5V/ 5V
Current Reduction Rate	۱ ^۴	0.43 mA/°C	0.43 mA/°C	0.28 mA/°C	0.43mA/°C/ 0.28mA/°C	0.40 mA/°C	0.40 mA/°C	0.33 mA/°C	0.40mA/°C/ 0.33mA/°C
Ambient Temperature Range		–25°C ~ +55°C				−25°C ~ +55°C			

Notes

The LED circuit is isolated and requires an external power source.

- · If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula shown here.
- · The changes to LED specifications do not effect any external dimensions of the switches.





· Contact the factory if further details are needed.

PART NUMBERS EFFECTED BY B ILLUMINATED TOGGLES REVISIONS

B12JJPC	B12JJPD	B12JJPF	B12JJPCF	B13JJPCF
B12JJHC	B12JJHD	B12JJHF	B12JJHCF	B13JJHCF
B12JJVC	B12JJVD	B12JJVF	B12JJVCF	B13JJVCF

Effective Date

Changes to B Illuminated Toggles will be effective September 2016.

SWITCHES

http://www.nkkswitches.com • 1.877.2BUYNKK (228.9655)

7850 East Gelding Drive • Scottsdale, AZ 85260 • Telephone 480.991.0942 • Fax 480.998.1435

Change Notice

Change to GB Illuminated Pushbuttons LED Specifications

Type of Change:

- 🗹 Engineering 🗆 Part Number
- ✓ Product ✓ Appearance

The GB Illuminated Pushbuttons will have a change to the LED specifications for Red, Amber and Green. The change will effect all illuminated models, both standard and custom. The specification changes are outlined below, followed by effected standard part numbers.



LED Changes for GB Illuminated Pushbuttons

LED COLORS & SPECIFICATIONS

LEDs are supplied as an integral part of illuminated devices and are not available separately. The electrical specifications shown here are determined at a basic temperature of 25°C.

		Before Change			After Change			
(1) 0 (3)		С	D	F	С	D	F	
(Color	Red	Amber	Green	Red	Amber	Green	
Maximum Forward Current	I _{FM}	30mA	30mA	25mA	30mA	30mA	30mA	
Typical Forward Current	I _F	20mA	20mA	20mA	20mA	20mA	20mA	
Forward Voltage	V _F	1.9V	1.9V	2.1V	1.95V	2.0V	2.1V	
		I _F = 20						
Maximum Reverse Voltage	V_{RM}	5V	5V	5V	5V	5V	5V	
Current Reduction Rate Above 25°C	$\Delta I_{\rm F}$	0.43 mA/°C	0.43 mA/°C	0.36 mA/°C	0.40 mA/°C	0.40 mA/°C	0.40 mA/°C	
Ambient Temperature Range		–25°C ~ +55°C			–25°C ~ +55°C			

Notes

- The LED circuit is isolated and requires an external power source.
- If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula shown here.
- The changes to LED specifications do not effect any external dimensions of the switches.



· Contact the factory if further details are needed.

PART NUMBERS EFFECTED BY G ILLUMINATED PUSHBUTTONS REVISIONS

GB15JPC	GB15JHC	GB15JVC
GB15JPD	GB15JHD	GB15JVD
GB15JPF	GB15JHF	GB15JVF

Effective Date

Changes to GB Illuminated Pushbuttons will be effective September 2016.



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