Contact No. 250



Change Notice NP01 Series Illuminated Pushbuttons

Change of Single & Bicolor LED Specifications

Type of Change:

☑ Engineering □ Part Number

☑ Product ☑ Appearance

The NP01 Series Illuminated Pushbuttons will have changes to the single and bicolor LEDs. The change will effect all models, both standard and custom. Differences in the LED specification values are outlined in the following tables.

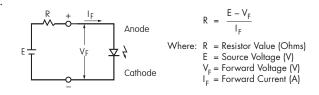


NP01 Pushbutton

Electrical Specifications for NP01 Bicolor LED						
Electrical specifications are determined at a basic temperature of 25°C.		Before Change		After Change		
		CF		CF		
ELECTROSTATIC SENSITIVE DEVICES	Color	Red	Green	Red	Green	LC2 C
Maximum Forward Current	I _{FM}	50mA (20)	30mA (20)	30mA (25)	25mA (25)	LC2 (+) C Green L3 (-) Red
Typical Forward Current	I _F	20mA (15)	20mA (7.5)	20mA (20)	16mA (5)	0 L2 (-) Red
Typical Forward Current for Alternating Legends	I _F	30mA	25mA	20mA	16mA	LC1 (+) C Red (+) C Red Green
Forward Voltage	V _F	2.0V	3.5V	1.95V	3.3V	
Maximum Reverse Voltage	V _{RM}	5V	5V	5V	5V	Red/Green Bicolor LED
Current Reduction Rate	$\Delta I_{\rm F}$	0.88mA/°C above 40°C	0.48mA/°C above 30°C	0.40mA/°C above 25°C	0.33mA/°C above 25°C	
Ambient Temperature Range		−25° ~ +50°C		−25° ~ +50°C		

Notes

- Specifications in () in table above denote simultaneous illumination of Red and Green.
- LEDs are an integral part of the switch and are not available separately.
- 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 bicolor LEDs do not affect any external dimensions of the switches.
- Contact the factory if further details are needed.



NP01 Part Numbers Effected by Bicolor LED Specification Changes

			p=====================================	
Standard Operating Force	NP0115AG03LCF-JB	NP0115AG03LCF-J01	NP0115AG03LCF-J02	NP0115AG03LCF-J04
High Operating Force	NP0115HG03LCF-JB	NP0115HG03LCF-J01	NP0115HG03LCF-J02	NP0115HG03LCF-J04

Effective Date

Changes to Bicolor LEDs will be effective April 2015.

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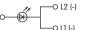
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Change Notice NP01 Series Illuminated Pushbuttons

Change of Single & Bicolor LED Specifications

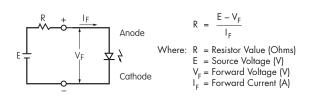
Electrical Specifications for NP01 Single Color LED							
Electrical specifications are determined at a basic temperature of 25°C.		Before Change			After Change		
ATTENTION ELECTROSTATIC SENSITIVE DEVICES	Color	C Red	D Amber	F Green	C Red	D Amber	F Green
Maximum Forward Current	I _{FM}	50mA	50mA	30mA	30mA	30mA	25mA
Typical Forward Current	I _F	20mA	20mA	20mA	20mA	20mA	16mA
Forward Voltage	V _F	2.0V	2.1V	3.5V	1.95V	2.0V	3.3V
Maximum Reverse Voltage	V _{RM}	5V	5V	5V	5V	5V	5V
Current Reduction Rate	$\Delta I_{\rm F}$	0.88mA/°C above 40°C	0.88mA/°C above 40°C	0.48mA/°C above 30°C	0.42mA/°C above 25°C	0.42mA/°C above 25°C	0.33mA/°C above 25°C
Ambient Temperature Range		−25° ~ +50°C			−25° ~ +50°C		





Notes

- LEDs are an integral part of the switch and are not available separately.
- 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 single color LEDs do not affect any external dimensions of the switches.
- Contact the factory if further details are needed.



-O L4 (-)

-0 13 (-) -O L2 (-)

NP01 Part Numbers Effected by Single LED Specification Changes					
Standard	Operating Force	High Operating Force			
NP0115AG03LC-JB	NP0115AG03LD-JD	NP0115HG03LC-JB	NP0115HG03LD-JD		
NP0115AG03LC-JC	NP0115AG03LF-JB	NP0115HG03LC-JC	NP0115HG03LF-JB		
NP0115AG03LD-JB	NP0115AG03LF-JF	NP0115HG03LD-JB	NP0115HG03LF-JF		

Effective Date

Changes to Single Color LEDs will be effective October 2015.

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