

# STANDARD TYPES





- NARROW

SLOPE KEYS -









SLOPE KEYS - WIDE













HALF KEYS - NARROW (12 mm)



WINDOW KEYS - WIDE (17 mm) Replaceable Legends



COLORED INSERTS

### **SPECIFICATIONS**

Ratings — Switch — 10mA at 24 VDC.

Mechanical Life and Electric Life — 5 million operations momentary, 10,000 maintained Initial Contact Resistance — 50 milliohms max.

Insulation Resistance — 109 Ohms minimum

Contact Bounce — 2.0 ms maximum

Operating Force — 150 grams approx. Total Key Travel — .098 (2.5 mm)

**Pre-Travel** — .039 (1 mm)

Ambient Temperature — -25°C to +85°C

(-13°F to +185°F)

**Mounted Method** — Direct soldering onto standard Matrix printed circuit board.

Interchangeable Keys — Large variety of colors

### **MATERIALS**

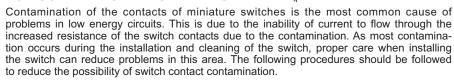
**Housing** — Polycarbonate **Key Cap** — ABS

**Switching Contacts** — Gold plate over silver plated brass.

### **CAUTION AND**

### RECOMMENDATIONS

## FOR SOLDERING AND CLEANING



### **Hand Solder**

- 1. Use rosin core solder .030" .040" diameter.
- 2. A small soldering iron in the 30 to 40 watt range should be used.
- 3. The solder joint should not be overheated.
- 4. Do not position switch with terminations straight up.
- 5. No clean up should be necessary. However, if used, do not allow solvents to enter non-sealed areas of switch.

### Wave solder — Miniature Switches

Do not immerse or spray with solvents to remove flux except for switches designed for this type of cleaning.

The use of wave solder oil is not advised.



Clean Lines Positive Tactile Action, Bright LED Indicators



Keys Are Detachable and Interchangeable with Improved Push-On Design



Stand-Off Lugs Minimize Solder-Creepage



Half Key Feature





RECOMMENDED KEY REMOVAL METHOD Operate switch.
 Insert small screwdriver into resulting gap at 'A'.
 Gently twist.

NOTE: When removing keys from within a matrix e.g. No. 3 above, first remove Nos. 9 and 6 by the above method then remove No. 3.

LED SPECIFICATIONS							
Color	Red	Green	Yellow				
Maximum ratings							
Forward current	30mA	30mA	30mA				
Forward voltage	3.0 @	3.0 @	3.0 @				
-	10mA	20mA	10mA				
Intensity (typical)	2.0 mcd	1.5 mcd	2.0 mcd				
, , , ,	@ 10mA	@ 20mA	@ 10mA				

<sup>\*</sup> Trademark of LUCAS N.S.F. Limited



# **KEYLITE ORDERING GUIDE** — For assembled switches

				Suffix Nu	mbers — Add to Base Catalog Nur	nber				04	ha.
Poles Contact		Base Catalog	LED Colors and Quantity		Operator Key Style and Number or LED's			Operator Key Color		Other Features	
Throw	Operation	Number	Description	Suffix Number	Style	Number of LED Holes	Suffix Number	Color	Suffix Number	Feature	Suffix Number or Letter
			One Red, Narrow Spacing 1 One Red, Wide Spacing 2	14 15	Slope, Narrow Slope, Wide	None None	1A 2A			Colored Inserts	
			One Green, Narrow Spacing	24	Slope Narrow Slope, Wide	One One	3A 4A	White	1	Applicab Styles 2E, 4	le to Key E & 6E Only
			One Green, Wide Spacing	25	Slope, Narrow Slope, Wide	Two Two	5A 6A	Red	2	White Red	-1 -2 -3
			One Yellow, Narrow Spacing  One Yellow, Wide Spacing	34 35	Step, Narrow Step, Wide	None None	1D 2D	Green	3	Green Orange Gray	-3 -4 -5
1PDT	Momentary	SB6SDV			Step, Narrow Step, Wide	One One	3D 4D	Orange	4	Black Blue	-4 -5 -6 -7 -8
			Two Red (3) Two Green (3)	44 54	Step, Narrow Step, Wide	Two Two	5D 6D	Gray Black	5	Yellow Static Shielding	s <b>(6)</b>
			No LED Two Yellow	64 74	Half, Narrow Half, Narrow Half, Narrow	None One Two	1B 2B 3B	Blue	7	Sealant Tape	⊺
			One Red, One Green (3) (4)	84 94	Window, Wide Window, Wide Window, Wide	None One Two	2C 4C 6C	Yellow	8	Epoxy Sealed Terminals	E
			One Red, One Yellow 3	94	Colored, Wide Insert	None	2E			Custom Stamping	6
			One Green, One Yellow 3 4	04	Colored, Wide Insert Colored, Wide	One	4E				
					Insert	Two	6E				
					Paddle Key Paddle Key Paddle Key	None One Two	1F 2F 3F				
					Illuminated paddle Key	No Light Bars	1G				
					Illuminated Paddle Key	One Light Bar	2G				
					Illuminated Paddle Key	Two Light Bars	3G				
					Slant Key	None	1H				

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# **FOOTNOTES**

# **ORDERING EXAMPLES:**

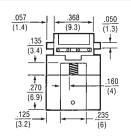
# Mounting of LED's

LED is mounted in center holes A(-) and B(+).
 LED is mounted in outer holes C(-) and D(+).

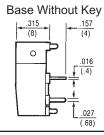
3 LED's are mounted in holes C(+) and A(-). holes B(-) and D(+).

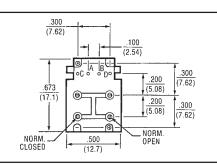
4 Colored LED's are mounted left to right.

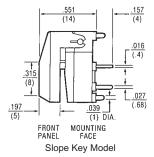
SB6SDV143A1 — Momentary switch, narrow spaced red LED, white narrow slope Key.

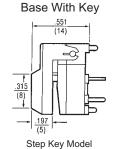


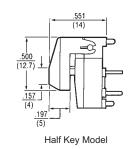
# **Keylite Switch Dimensions**











Litho in U.S.A GG 19

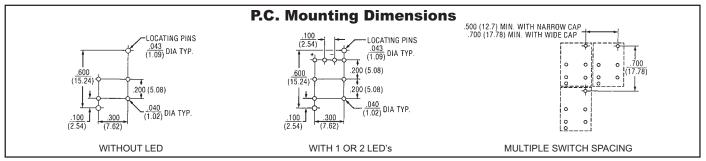


# **OPERATOR KEY SELECTION TABLE**

				Momenta	ary Action	Vov	Color
Key Description		Key Part Number	Number of LED Holes	- Key Color	Code		
	.484 (12.3)	<b>∏</b> ≥	515 500 FACH (13.1) (12.7) FACH ADDITIONAL 703 SWITCH	W-KN-21	None		
	(17.1)		.700(17.8) EACH ADDITIONAL SWITCH	W-KN-22	1		
Narrow Slope Key			PANEL CUT OUT	W-KN-23	2		
••	.150 (4)		711 7700 EACH (17.8) ADDITIONAL SWITCH (17.9)	W-KN-24	None		
	(17.1)		1 7 7 700 EACH ADDITIONAL SWITCH	W-KN-25	1		
Wide Slope Key	(17.3)		PANEL CUT OUT	W-KN-26	2	Black	No letter
0	- 150 (4)   - 118		.515	W-KN-40	None	White	Suffix A
	673 (17.1) L.118 (3)		7.00 (17.8) EACH ADDITIONAL SWITCH	W-KN-41	1	Red	В
Narrow Step Key	.484 (12.3)		PANEL CUT OUT	W-KN-42	2	Green	С
00	(5.1) 118 (3)		711 700 EACH (17.8) EACH ADDITIONAL SWITCH	W-KN-43	None	Blue	D
	<u>.673</u> (17.1)		<del></del>	W-KN-44	1	Gray	E
Wide Step Key	.315 <u>.681</u> (17.3)	J	700 (17.8) EACH ADDITIONAL SWITCH PANEL CUT OUT	W-KN-45	2	Yellow	F
0.0	- <u>.484</u> (12.3)		515 .500 EACH (12.7) EACH (12.7) EACH (12.7) EACH (13.5) S30 SWITCH	W-KN-28	None	Orange	G
	.500 (12.7)		350 ADDITIONAL SWITCH  -527 (13.4) EACH ADDITIONAL SWITCH	W-KN-29	1		
Half Keys			PANEL CUT OUT	W-KN-30	2		
	(17.3)	<b>/</b> ∏⇒	711 700 EACH (18.1) (17.0) EACH ADDITIONAL SWITCH (17.9)	W-KN-37	None		
1	.673		<del>                                      </del>	W-KN-38	1		
Window Keys	.523 (7)		(17.8) EACH ADDITIONAL SWITCH PANEL CUT OUT	W-KN-39	2		
Colored Insert Keys							
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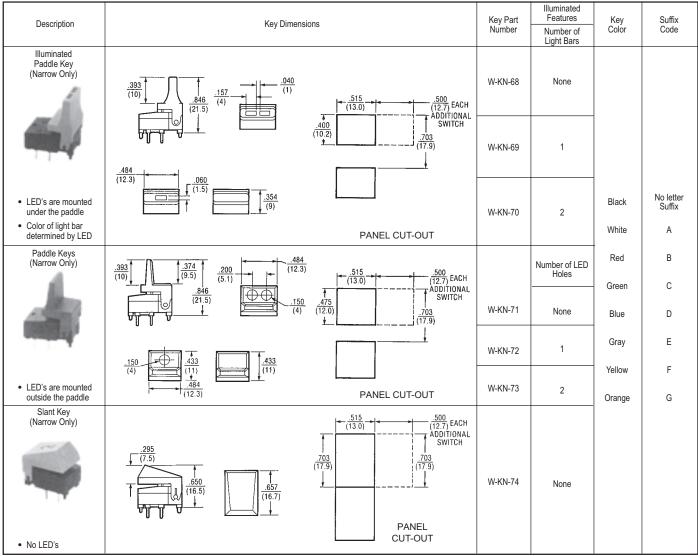
Ordering Example: W-KN-21D is a blue narrow slope key w/no LED holes. W-KN-45 is a black wide step key w/two LED holes.



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## **OPERATOR KEY SELECTION TABLE**



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Ordering Examples: W-KN-70E is a gray paddle key with 2 light bars. W-KN-72D is a blue paddle key with 1 LED hole.

W-KN-74 is a black slant key.

## **ADDITIONAL KEYLITE OPTIONS**

### **STATIC SHIELDING**



- Static Shielding prevents static electricity from entering the circuit via the LED.
- Withstands up to 11,000 volts DC.
- · Can be provided on any key style.

## **SEALANT TAPE**



 Adhesive tape seals switches for wave soldering. Tape is discarded after wash. Key caps shipped unassembled.

### **CUSTOM INK STAMPING**





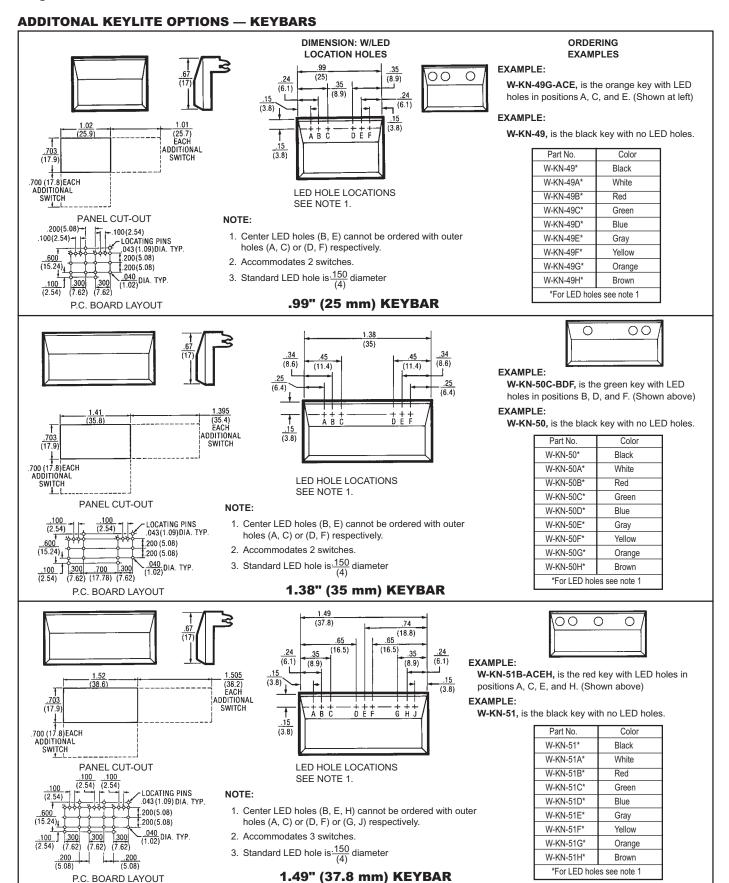




Available upon request.

Litho in U.S.A GG





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