

# ILLUMINATED SWITCHES



## FEATURES

- SPST and DPST button
- PCB or front panel mounting
- Locking and momentary action
- Low level or 250V AC switching
- Self-cleaning bifurcated contacts
- Optional single or dual LED illumination
- Colour buttons
- Legend insertable keytops
- Silver and gold plated metal contacts
- UL and CSA approvals

## DESCRIPTION

A Series of space saving front panel or through hole PCB mounted miniature pushbutton switches with momentary or alternate action. The LP illuminated pushbuttons are available with silver or gold plated metal contacts to suit a large number of applications. LED illumination is available with either one or two LEDs fitted to indicate the system state. The LEDs are available in red, green and yellow and accessories include nine different solid coloured buttons and four clear coloured buttons, separating barriers and dust covers.

## SPECIFICATIONS

### SPST/DPSP

### SPDT/DPDT

#### Electrical

Rating

#### Gold Contacts

50mA 48V AC/DC max  
0.1mA 20mV AC/DC min  
100mΩ max (200μV AC 1.5mA)

#### Silver Contacts

3A 250V AC or 3A 30V DC

Contact Resistance  
Insulation Resistance  
Dielectric Strength

100MΩ min @ 500V AC  
1500V AC for 1 minute

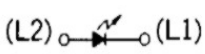
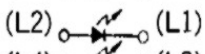
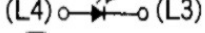
50mΩ max (1A @ 2 to 4V DC)  
100MΩ min @ 500V AC  
1500V AC for 1 minute

#### Mechanical

Operating Life  
Operating Temp  
Operating Force

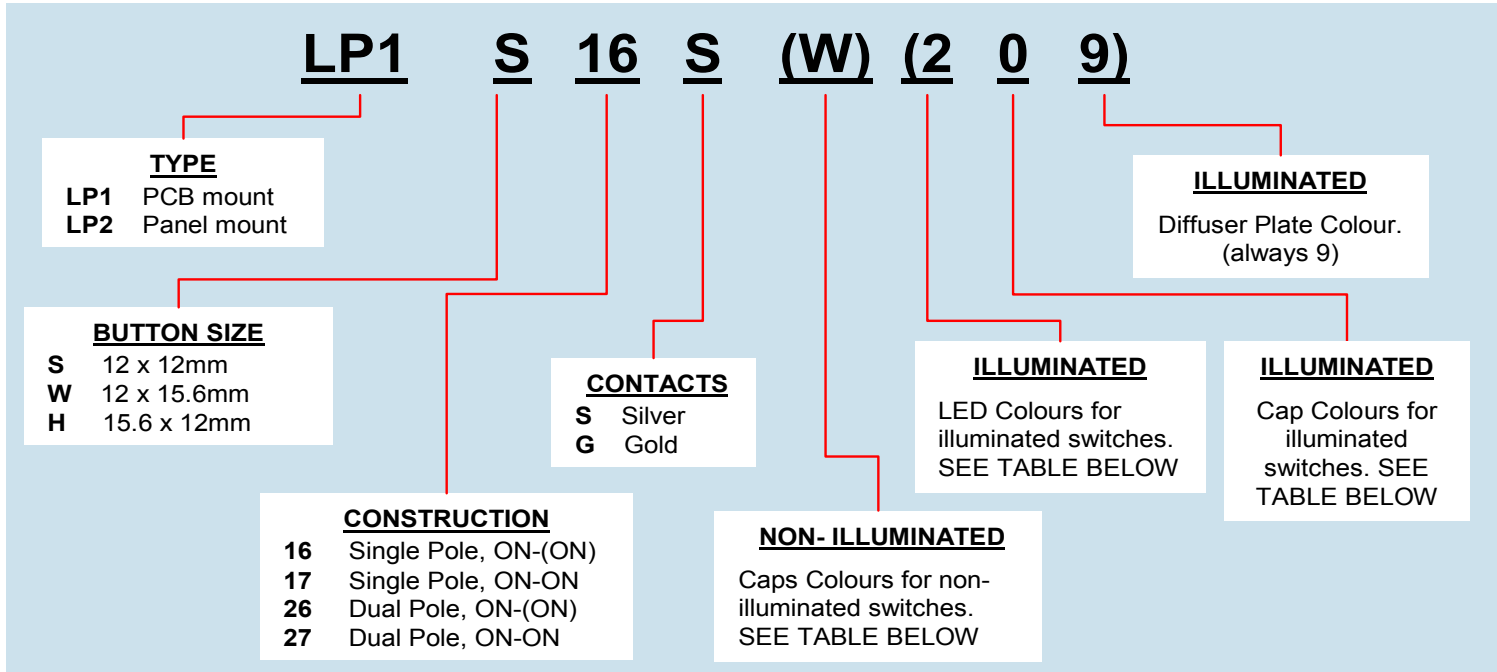
min 200,000 operations  
-15°C to +60°C  
1 POLE 2.0N +/- 1.0N  
2 POLE 2.3N +/- 1.0N

min 30,000 operations (3A 250V AC; 20,000 operations)  
-15°C to +60°C  
1 POLE 2.0N +/- 1.0N  
2 POLE 2.3N +/- 1.0N

Series	LED	Internal circuit diagram	LED colour No.	Colour	IF	V F		VR
						Nom	Max	
LP1S/LP2S	Single	(L2)  (L1)	2	Red	30mA	2.0V	2.8V	dc5V
LP1W / LP2W / LP2H	Double	(L2)  (L1)	5	Green	20mA	1.95V	2.5V	dc5V
		(L4)  (L3)	8	Yellow	20mA	1.9V	2.5V	dc5V

# ILLUMINATED SWITCHES

## ORDERING INFORMATION



## TABLES

**(W) SOLID CAP COLOUR**

<b>W</b>	White	<b>G</b>	Grey	<b>O</b>	Orange
<b>R</b>	Red	<b>M</b>	Green	<b>Y</b>	Yellow
<b>K</b>	Black	<b>B</b>	Blue	<b>C</b>	Brown

**(0) CAP COLOUR No.**

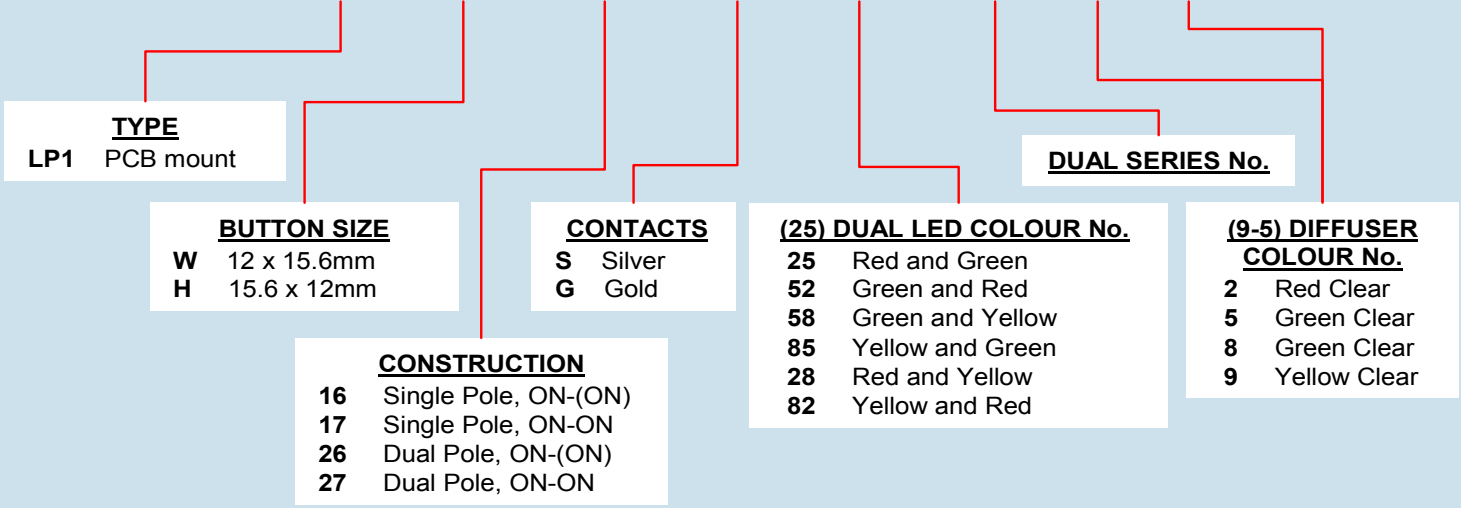
<b>2</b>	Red
<b>5</b>	Green
<b>8</b>	Yellow
<b>0</b>	Clear

**(2) LED COLOUR No.**

<b>2</b>	Red
<b>5</b>	Green
<b>8</b>	Yellow

## DUAL COLOUR SPERATED LEDs

**LP1   W   16   S   25   O   9   5**



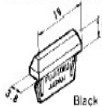
# ILLUMINATED SWITCHES

## OPTIONAL ACCESSORIES

### Barrier

#### LP2S

Side Barrier  
MD0550437



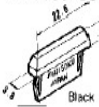
#### LP2W

Center Barrier  
MD0550438

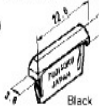


#### LP2H

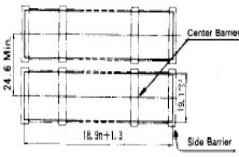
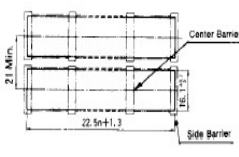
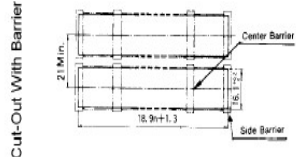
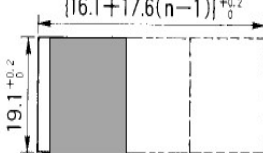
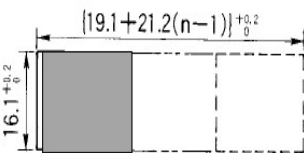
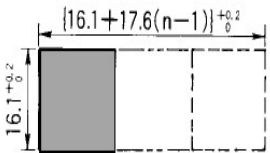
Side Barrier  
MD0550439



Center Barrier  
MD0550440

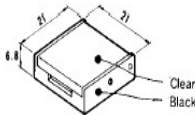


### Panel Cut-Out Dimensions (Panel Thickness 1~2.5mm)



### Switch Guard

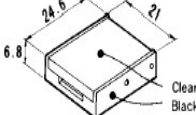
#### MD7250011



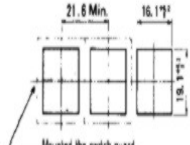
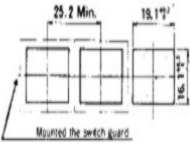
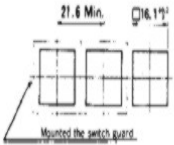
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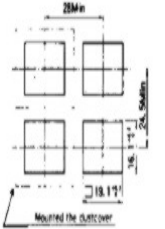
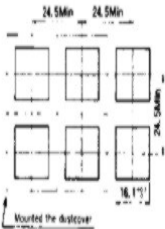
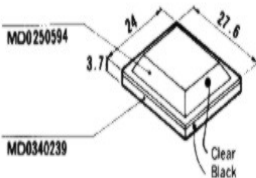
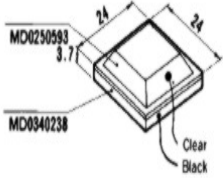
#### MD7250013



### Panel Cut-Out Dimensions (Panel: 1~1.9mm)

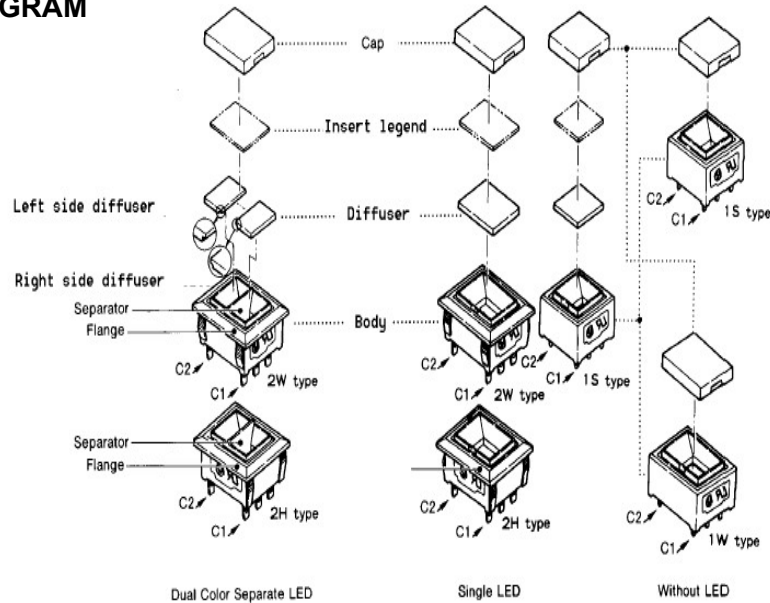


### Dustcover

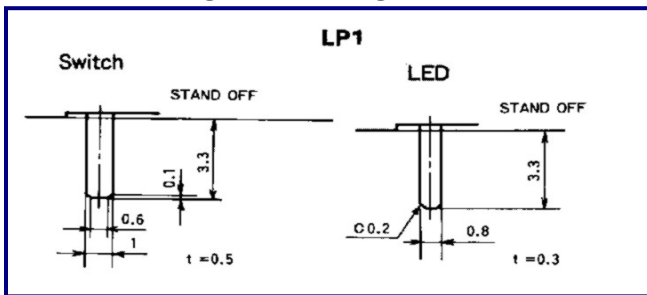


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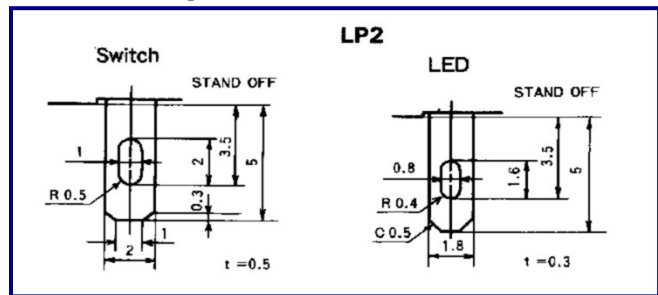
## ASSEMBLY DIAGRAM



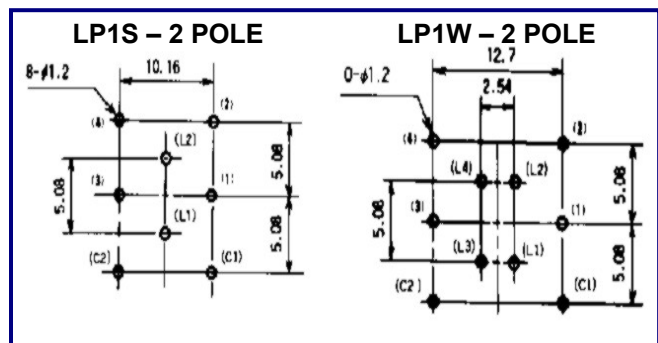
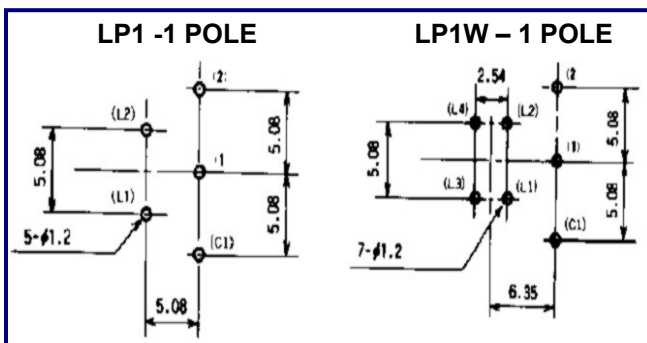
## TERMINAL STYLE LP1S



## TERMINAL STYLE LP2



## PCB Layout



All measurements are in mm. Tolerance +/- 0.3mm unless shown. This leaflet is believed to contain the best information at time of printing, but is subject to change without notice.



Devlin Electronics Limited, Unit D1, Grafton Way, Basingstoke, Hants, RG22 6HZ, England