



*Think Automation and beyond...*



***IDEC LW Silhouette Switches***

# Distinctive Styling

## A Work of Modern Art

IDEC Corporation, one of the top 5 switch manufacturers in the world, dominates the market with a well-deserved reputation for producing high-quality, reliable products. With over sixty years of experience, the introduction of the LW Silhouette series of switches means customers can now get a striking exterior to match.

### Bold designs

The refined style of the IDEC LW Silhouette switches brings a fresh look to any application. Designed with a sleek and updated appearance, these flush mount switches are appealing on many different levels.

### Unparalleled performance

When you want reliability, IDEC is the answer. Backed by global approvals, IDEC switches test well beyond the number of operation cycles required by industrial standards. Buying an IDEC switch means buying a high-end product you can count on to last.

### Progressive technology

Beneath the clean style of LW Silhouette switches lies durable construction and cutting-edge technology. Our exclusive, ergonomic design requires minimal force allowing it to seamlessly integrate into any panel.



[www.IDEC.com/usa](http://www.IDEC.com/usa)



Note: Switches shown with optional safety lever lock

# Personalize your Experience



www.IDEC.com/usa



### Pushbuttons

- Bezel: Metal, Plastic and Plastic with guard
- Solder, PCB and Screw terminals available
- Maintained and Momentary operator type



### Illuminated Pushbuttons

- Bezel: Metal, Plastic and Plastic with guard
- LED Illumination (6, 12, 24V AC/DC, 120 and 240V AC)
- Gold and Silver contacts



### Pilot Lights

- Flush or Extended Lens available
- LED Illumination (6, 12, 24V AC/DC, 120 and 240V AC)
- Solder, PCB and Screw terminals available



### Selector Switches

- 2 and 3 position selector switches
- Knob or Lever Handle
- Maintained and Spring Return operator type



### Illuminated Selector Switches

- 2 and 3 position selector switches
- LED Illumination (6, 12, 24V AC/DC, 120 and 240V AC)
- Bezel: Metal or Plastic



### Key Selector Switches

- 2 and 3 position selector switches
- 60 different key variations available
- Maintained and Spring Return operator type



### Illuminated Key Selector Switches

- 2 and 3 position selector switches
- LED Illumination 24V AC/DC
- Two way split illumination on light ring

Note: Round switches are available in Metal or Plastic bezel, while square switches are only available with a plastic bezel.



- Food Processing
- Semiconductor Industry
- Medical Equipment
- Chemical Process Plants
- Elevators
- Biomedical Facilities
- Robotic Cell Work Stations
- Yachts
- Transportation
- Audio/Visual



## Streamline Applications

With aggressive lines and impressive performance, LW Silhouette switches make a personal statement about your style. Projecting only 2mm when mounted on a panel, these sleek switches provide a sharp, updated look while maintaining the highest levels of quality and durability. Choose from one of six eye-catching colors.

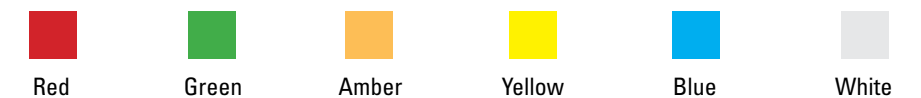
Perfect for industries requiring a hygienic surface, LW Silhouette switches save space and money with an operator that mounts

flush; eliminating the need for accessories or additional parts, and limiting the chance of any accidental resetting. In addition, the smoother design cuts down on surface area and consequently prevents dust and other particles from accumulating in your control units, covers and panels. Not to mention, making regular cleaning and maintenance easier.

So what's your favorite color?

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### Colors to match your need and style



2mm

Projects only 2mm from the front of panel

### LW Silhouette Series

Shape	Size (mm)	Bezel Type	Panel Cut-out	Style	Pushbutton	Pilot Light	Illuminated Pushbutton	Selector	Key Selector	Illuminated Selector	Illuminated Key Selector
	ø28	Metal	ø25.3	Flush	•	•	•	•	•	•	•
				Extended	•	•	•	•	•	•	•
	ø28	Plastic	ø25.3	Flush	•	•	•	•	•	•	•
				Extended	•	•	•	•	•	•	•
	□28	Plastic	□24.5	Flush	•	•	•	•	•	•	•
				Extended	•	•	•	•	•	•	•



### Pilot Lights (LED: 24V AC/DC)

Shape	Bezel	Illumination Color	Solder/Tab Terminals	Screw Terminals
Round	Metal	Green	LW6MP-14G	LW6MP-14MG
Round	Plastic	Blue	LW6P-14S	LW6P-14MS
Square	Plastic	Red	LW7P-14R	LW7P-14MR

### Pushbuttons

Operator Type	Shape	Bezel	Button Color	Solder/Tab Terminals	Screw Terminals
Momentary	Round	Metal	Black	LW6MB-M1C6LB	LW6MB-M1C6MLB
Maintained	Round	Plastic	Red	LW6B-A1C6LR	LW6B-A1C6MLR
Momentary	Square	Plastic with guard	Green	LW7GB-M1C6LG	LW7GB-M1C6MLG

### Illuminated Pushbuttons (LED: 24V AC/DC)

Operator Type	Shape	Bezel	Illumination Color	Solder/Tab Terminals	Screw Terminals
Momentary	Round	Metal	Yellow	LW6ML-M1C64Y	LW6ML-M1C64MY
Maintained	Round	Plastic	Green	LW6L-A1C64G	LW6L-A1C64MG
Momentary	Square	Plastic with guard	Red	LW7L-M1C64R	LW7L-M1C64MR

### Selector Switches

Operator Type	Shape	Bezel	Position	Solder/Tab Terminals	Screw Terminals
Maintained	Round	Metal	2	LW6MS-2C6	LW6MS-2C6M
Maintained	Round	Metal	3	LW6MS-3C6	LW6MS-3C6M
Spring Return from Right	Square	Plastic	3	LW7S-31C6	LW7S-31C6M

### Illuminated Selector Switches (LED: 24V AC/DC)

Operator Type	Shape	Bezel	Illumination Color	Position	Solder/Tab Terminals	Screw Terminals
Maintained	Round	Metal	Red	2	LW6MF-2C64R	LW6MF-2C64MR
Spring Return from Right	Round	Plastic	Green	2	LW6F-21C64G	LW6F-21C64MG
Maintained	Square	Plastic	Blue	3	LW7F-3C64S	LW7F-3C64MS

### Key Selector Switches

Operator Type	Shape	Bezel	Position	Solder/Tab Terminals	Screw Terminals
Maintained	Round	Metal	2	LW6MK-2C6A	LW6MK-2C6MA
Maintained	Round	Metal	3	LW6MK-3C6A	LW6MK-3C6MA
Spring Return from Right	Round	Plastic	3	LW6K-31C6B	LW6K-31C6MB

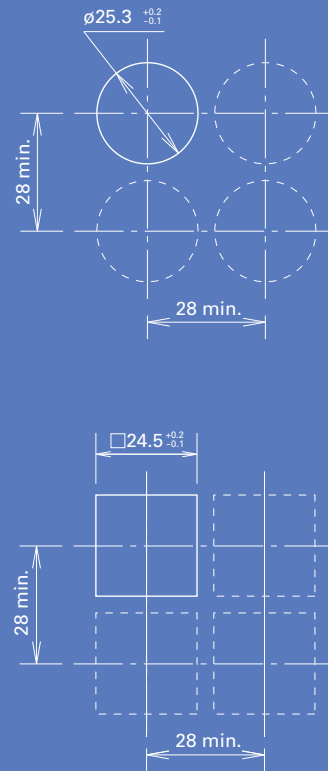
### Illuminated Key Switches (LED: 24V AC/DC)

Operator Type	Shape	Bezel	Position	Illumination Color		Solder/Tab Terminals	Screw Terminals
				Left Half	Right Half		
Maintained	Round	Metal	2	Green	Green	LW6MJ-2C64GGA	LW6MJ-2C64MGGA
Maintained	Round	Metal	3	Red	Green	LW6MJ-3C64RGA	LW6MJ-3C64MRGA
Spring Return from Right	Round	Plastic	2	Blue	Blue	LW6J-21C64SSB	LW6J-21C64MSSB

#### Notes:

- Switches listed above have DPDT contacts - SPDT and 3PDT contacts also available
- Switches also available with PCB terminals
- Illuminated Switches and pilot lights are available in 6, 12, 24V AC/DC, 120 and 240V AC
- Available colors: Red, Green, Amber, Yellow, Blue, White

### Mounting Hole Layout



Note: Dimensions in mm

## Specifications

General Specifications		Value
<b>Operating Temperature</b>		-25 to +60°C (no freezing), Illuminated units: -25 to +50°C
<b>Storage Temperature</b>		-40 to +80°C
<b>Operating Humidity</b>		45 to 85% RH (no condensation)
<b>Contact Resistance</b>		50 mΩ maximum (initial value)
<b>Insulation Resistance</b>		100 MΩ minimum (500V DC megger)
<b>Dielectric Strength</b>	<b>Switch Unit</b>	Between live part and ground: 2,500V AC, 1 minute Between terminals of different poles: 2,500V AC, 1 minute Between terminals of the same poles: 1,000V AC, 1 minute
	<b>Illumination Unit</b>	Between live part and ground: 2,500V AC, 1 minute
<b>Vibration Resistance</b>		Operating extremes: 5 to 55 Hz, amplitude 0.5 mm
<b>Shock Resistance</b>		Damage limits: 1,000 m/s <sup>2</sup> (100G) Operating extremes: 100 m/s <sup>2</sup> (10G)
<b>Mechanical Life (minimum operations)</b>		Pushbuttons (Momentary): 1,000,000 Pushbuttons (Maintained): 500,000 Selector switches: 250,000 Key selector switches (Illuminated and Non-Illuminated): 100,000 Illuminated selector switches: 250,000
<b>Electrical Life (minimum operations)</b>		Pushbuttons (Momentary): 100,000 <sup>1</sup> Pushbuttons (Maintained): 100,000 <sup>2</sup> Selector switches: 100,000 <sup>2</sup> Key selector switches (Illuminated and Non-Illuminated): 100,000 <sup>2</sup> Illuminated selector switches: 100,000 <sup>2</sup>
<b>Degree of Protection</b>		IP65 (IEC 60529)
<b>Terminal Style</b>		Solder/tab terminal #110 PCB terminal Screw terminal

- Switching frequency 1,800 operations/hour.
- Switching frequency 900 operations/hour.

Contact Ratings	Contact Type	Value			
		<b>Maximum Voltage</b>	250V AC/DC		
Gold Contacts	<b>Thermal Current</b>	3A			
	<b>Operating Voltage</b>	125V AC	30V DC		
	<b>Operating Current (resistive load)</b>	0.1A	0.1A		
	<b>Contact Material</b>	Gold-clad silver			
Silver Contacts	<b>Operating Voltage</b>	30V	125V	250V	
	<b>Operating Current</b>	AC 50/60Hz	<b>Resistive Load</b>	3A	2A
			<b>Inductive Load</b>	2A	1.5A
	DC	<b>Resistive Load</b>	2A	0.4A	-
		<b>Inductive Load</b>	1A	0.2A	-
<b>Thermal Current</b>	5A				
<b>Contact Material</b>	Silver				

- AC inductive load: PF = 0.6 to 0.7
- DC inductive load: L/R = 7ms max.
- Minimum applicable load (reference value): 5V AC/DC, 1mA

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For more choices, go to [www.IDEC.com/switches](http://www.IDEC.com/switches)



## The Final Touch

LW Silhouette switches are a luxury you can't afford to miss. Sleek lines and vivid colors enhance the look of your application while also increasing its marketability. This essential component will add a touch-of-class to any application. Take a closer look inside this brochure and see which LW switch is for you!

Only 2mm projects from the panel.

Bezel Projects Only 2mm From Front of Panel

Bezel

- Metal
- Plastic
- Plastic with Guard

Safety Lever (Optional Safety Lever Lock)



Removable Contact Block

Snap Action Contacts

- SPDT
- DPDT
- 3PDT

Terminals

- Solder Tab/Quick Connect
- Screw
- PCB

Contact Material

- Gold
- Silver



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**IDEC**

www.IDEC.com/usa

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