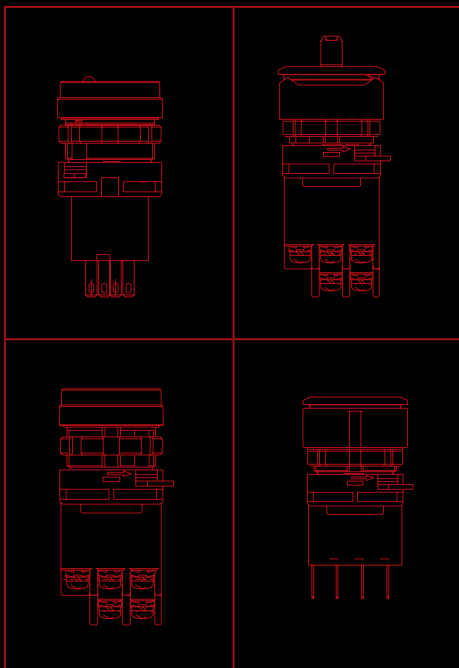


# LW, LW flush SERIES

SWITCHES FOR LIGHT INDUSTRIAL APPLICATIONS

## NEW RANGE

- New functions: illuminated selectors, 3 in 1 buzzers
- New designs: metallic bezel, flush switches, 25 mm bushing
- Terminal possibilities: screw, solder/tab, PCB
- Up to 3PDT + illumination



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## General specifications

Mechanical Life (minimum operations)	LW series	Momentary: 1,000,000 Maintained: 500,000 Selector switches: 250,000
	LW flush series	Momentary: 1,000,000 Maintained: 500,000 Selector switches: 250,000 Key selector switches: 100,000
Terminal Style	Solder/tab terminal no. 110 PC board terminal Screw terminal	

## Environmental specifications

Standard Operating Condition	Operating temperature: -25 to +60°C (no freezing) Illuminated units: -25 to +50°C Storage Condition: -40 to +80°C (no freezing) Relative humidity: 45 to 85% RH (no condensation)
Vibration Resistance	Operating extremes: 5 to 55 Hz, amplitude 0.5 mm
Shock Resistance	Damage limits: 1,000 m/s <sup>2</sup> (100 G) Operating extremes: 100 m/s <sup>2</sup> (10 G)
Degree of Protection	IP65 (IEC 60529) (Buzzer: IP40)

## Electrical specifications

Contact Resistance	50 mΩ maximum (initial value)	
Insulation Resistance	100 MΩ minimum (500V DC megger)	
Electrical life	LW series	50,000 operations minimum (Rated Operating Current: Spec. 1) 100,000 operations minimum (Rated Operating Current: Spec. 2) *50,000 operations minimum when using silver contacts at 125V/5A resistance load (UL rating)
	LW flush series	100,000 operations minimum
Dielectric Strength	Switch unit	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 pole: 1,000V AC, 1 minute
	Illumination unit	Between live part and ground: 2,500V AC, 1 minute

## Approvals – EN compliant and CCC approved



## Contact Ratings - Gold Contact

Rated Insulation Voltage	250V	
Thermal Current	3A	
Operating Voltage	125V AC	30V DC
Operating Current (resistive load)	0.1A	0.1A
Contact Material	Gold plated silver	

Minimum applicable load (reference value): 5V AC/DC, 1mA  
(Applicable range is subject to the operating condition and load.)

## Contact Ratings - Silver Contact (switch base: gray) LW series

Rated Insulation Voltage				250V		
Rated Operating Voltage				30V	125V	250V
Rated	Spec.1*	AC 50/60Hz	Resistive load	—	5A	5A
			Inductive load	—	3A	1.5A
		DC	Resistive load	5A	1.1A	—
			Inductive load	2.5A	0.55A	—
	Spec.2*	AC 50/60Hz	Resistive load	—	5A	3A
			Inductive load	—	3A	1.5A
		DC	Resistive load	3A	0.6A	—
			Inductive load	1A	0.22A	—
Rated Thermal Current				5A		
Contact Material				Silver		

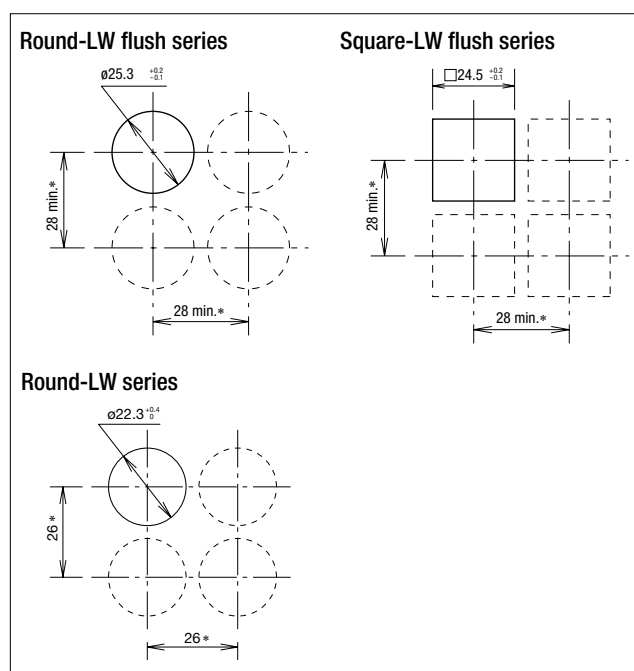
\* AC inductive load: PF=0.6 to 0.7 DC inductive load: L/R=7 ms max.  
\* See Specifications for electrical life.

## Contact Ratings - Silver Contact (switch base: gray) LW flush series

Operating Voltage			30V	125V	250V
Operating Current	AC 50/60Hz	Resistive Load	—	3A	2A
		Inductive Load	—	2A	1.5A
	DC	Resistive Load	2A	0.4A	—
		Inductive Load	1A	0.2A	—
Thermal Current			5A		
Contact Material			Silver		

AC inductive load: PF = 0.6 to 0.7  
DC inductive load: L/R = 7 ms max.

## Mounting Hole Layout



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## PUSHBUTTON AND INDICATOR

LW													-								
SERIES		OPERATION				BODY TYPE			LED VOLTAGE <sup>2</sup>			LENS OPTION									
		Blank – None <sup>4</sup> A – Latching/maintained M – Momentary				Blank – Unibody <sup>4</sup> C – Separable contact blocs			Blank – Non-lit 2 – 6V AC/DC 3 – 12V AC/DC 4 – 24V AC/DC			Blank – colored lens L – Lens style button <sup>1</sup> W – Clear lens, colored LED <sup>2</sup>									
CATEGORY		ACTUATOR STYLE			No. OF CONTACTS			TERMINALS			COLOR										
B – Button L – Illuminated Button P – Pilot light		1 – Round flush 2 – Round extended 3 – Ø30 mm mushroom <sup>3</sup>			0 – None (Pilot light) 1 – SPDT, gold-clad silver 2 – DPDT, gold-clad silver 3 – 3PDT, gold-clad silver 5 – SPDT, silver 6 – DPDT, silver 7 – 3PDT, silver			Blank – Solder/tab V – PCB M – Screw			A – Amber <sup>1</sup> B – Black <sup>2</sup> G – Green R – Red S – Blue W – White <sup>2</sup> PW – Pure white <sup>1</sup> Y – Yellow										
BEZEL																					
LW series																					

- 1 - Extended black, round plastic bezel, Ø25,8 mm button, Ø22 mm bushing  
 2 - Extended black, square plastic bezel, Ø25,8 mm button, Ø22 mm bushing  
 3 - Extended black, square plastic bezel, Ø25,8 mm round button, Ø22 mm bushing

### LW flush series

- 6 - Flush black, round plastic bezel, Ø28 mm button, Ø25 mm bushing  
 6M - Flush metal, round bezel, Ø28 mm button, Ø25 mm bushing  
 6G - Flush black, round plastic bezel, Ø28 mm button with guard, Ø25 mm bushing <sup>3</sup>  
 7 - Flush black, square plastic bezel, Ø28 mm button, Ø25 mm bushing  
 7G - Flush black, square plastic bezel, Ø28 mm button with guard, Ø25 mm bushing <sup>3</sup>

- <sup>1</sup> - Non-illuminated button only  
<sup>2</sup> - Illuminated button or pilot light only  
<sup>3</sup> - Buttons (ill. or not) only  
<sup>4</sup> - Pilot light only

## SELECTOR

LW - C										
SERIES	CATEGORY			ACTUATOR STYLE		LED VOLTAGE <sup>2</sup>		COLOR <sup>5</sup>		KEY NUMBER
	S – Selector F – Illuminated selector K – Key selector J – Illuminated key selector			Blank – standard L – Lever operator <sup>2</sup>		Blank – Non-lit 2 – 6V AC/DC 3 – 12V AC/DC 4 – 24V AC/DC		A – Amber <sup>1</sup> G – Green R – Red S – Blue PW – Pure white <sup>1</sup> Y – Yellow SS – Blue ring <sup>4</sup> PWPW – Pure white ring <sup>4</sup>		Blank – Selectors -500 to -504 – Key number
OPERATION				No. OF CONTACTS						
2 – 2 positions, maintained 21 – 2 positions spring return from right 3 – 3 positions, maintained 31 – 3 positions spring return from right 32 – 3 positions spring return from left 33 – 3 positions spring return 2-way				1 – SPDT, gold-clad silver 2 – DPDT, gold-clad silver 3 – 3PDT, gold-clad silver 5 – SPDT, silver 6 – DPDT, silver 7 – 3PDT, silver						

### BEZEL

#### LW series

- 1 – Extended black, round plastic bezel, Ø25,8 mm button, Ø22 mm bushing <sup>1</sup>  
 3 – Extended black, square plastic bezel, Ø25,8 mm round button, Ø22 mm bushing <sup>1</sup>

### LW flush series

- 6 – Flush black, round plastic bezel, Ø28 mm button, Ø25 mm bushing  
 6M – Flush metal, round bezel, Ø28 mm button, Ø25 mm bushing  
 7 – Flush black, square plastic bezel, Ø28 mm button, Ø25 mm bushing <sup>1</sup>

- <sup>1</sup> – not available for illuminated key selector (J)  
<sup>2</sup> – For selectors (S) only  
<sup>3</sup> – Only for 3-position key selector  
<sup>4</sup> – For illuminated key selector (J) only  
<sup>5</sup> – Other combinations are possible, contact us

## BUZZER

LW		-	1	X		
SERIES	BEZEL	CATEGORY		VOLTAGE <sup>2</sup>	LED	TERMINALS
		Z – Buzzer		2 – 6V AC/DC 3 – 12V AC/DC 4 – 24V AC/DC	Blank – without LED D – with LED	Blank – Solder/tab V – PCB

- 1 – Extended black, round plastic bezel, Ø25,8 mm button, Ø22 mm bushing  
 3 – Extended black, square plastic bezel, Ø25,8 mm button, Ø22 mm bushing

# ABOUT IDEC

## IDEC'S MAIN PRODUCT FAMILIES

SWITCHES | SAFETY | PANEL | AUTOMATION

## IDEC PRODUCTS ARE ESSENTIAL

### Best-in-class

Field-proven and reliable products

### Environment-friendly

Long-lasting and efficient products

### Enhanced safety

Custom solutions

Fully ISO compliant



# 23

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OF EXPERIENCE



# 100 000 +

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