LED Machine Lighting

LF2B Series

Key features:

Wide range of input voltages (100 - 240V AC) and DC-battery compatible 12/24V DC are available. Slim units can be used in many applications and installations where space is limited. Rated IP65 (protection from water and dust) LF2B is great for environments where water is sprayed.

- Slim units: 40mm (w) x 29mm (h). Using mounting brackets, one-step installation in a narrow space is possible.
- Five Lengths (210/330/580/830/1,080mm) are offered to meet space requirements and illumination coverages.
- Bright and clear white LED illuminates the shapes and colors of target objects. (LF2B illuminance is approximately 25% higher than the LF1B.)
- Two covers: clear or white

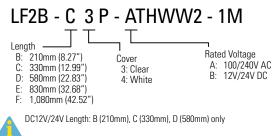


Part Numbers



Illumination Color	White							
	Clear	Cover	White Cover					
External appearance								
Rated Voltage	100 - 240V AC	12V/24V DC	100-240V AC	12V/24V DC				
LF2B-B (210mm)	LF2B-B3P-ATHWW2-1M	LF2B-B3P-BTHWW2-1M	LF2B-B4P-ATHWW2-1M	LF2B-B4P-BTHWW2-1M				
LF2B-C (330mm)	LF2B-C3P-ATHWW2-1M	LF2B-C3P-BTHWW2-1M	LF2B-C4P-ATHWW2-1M	LF2B-C4P-BTHWW2-1M				
LF2B-D (580mm)	LF2B-D3P-ATHWW2-1M	LF2B-D3P-BTHWW2-1M	LF2B-D4P-ATHWW2-1M	LF2B-D4P-BTHWW2-1M				
LF2B-E (830mm)	LF2B-E3P-ATHWW2-1M		LF2B-E4P-ATHWW2-1M					
LF2B-F (1,080mm)	LF2B-F3P-ATHWW2-1M		LF2B-F4P-ATHWW2-1M					

Part Number Structure



Accessories

ltem	Part Number	Remarks			
Mounting Bracket (U-shape)	LF9Z-1SB21	Comes with the product (see Note below)			
Mounting Bracket (L-shape)	LF9Z-1SB22	Order separately			

LF2B-B and -C includes 2 pieces of brackets each; LF2B-E 3 pieces, and LF2B-F 4 pieces each.

General Specifications

Model		LF2B-C (330mm)	LF2B-D (580mm)	LF2B-E (830mm)	LF2B-F (1,080mm)				
Rated Voltage		100-240V AC 50/60Hz (Voltage range: 90-264V AC)							
		12V/24V DC (Voltage range: 10.8-30V DC)							
AC100~240V	33mA	67mA	96mA	149mA	226mA				
DC12V/24V	215mA	409mA	880mA		-				
AC100~240V	3.8W	7.5W	9.2W	14.3W	21.8W				
DC12V/24V	2.6W	4.9W	10.6W		_				
	100MΩ minimum (500V DC megger)								
AC100~240V	AC2,000V								
DC12V/24V	AC1,000V -								
	Frequency 5 - 55 Hz, Amplitude 0.17mm, speed acceleration 20m/s ² , 3 directions, 2 hours each								
	300m/s ² , 6 directions, 5 times each								
	-30 to +55°C (no freezing)								
	45 to 85% RH (no condensation)								
	-35 to +70°C (no freezing)								
	No corrosive gases								
	40,000 hours (Ta = 25°C) (The total illumination life in which the brightness maintains a minimum of 70% of the initial value.)								
	IP65 (IEC 60529)								
	Front Cover: Polycarbonate Resin; End Cover/Cable Gland: Polyamide Resin; Cable: PVC sheathing (24AWG)								
AC100~240V	200g	255g	400g	520g	645g				
DC12V/24V	175g	235g	- -						
	DC12V/24V AC100-240V DC12V/24V AC100-240V DC12V/24V AC100-240V AC100-240V	DC12V/24V 215mA AC100-240V 3.8W DC12V/24V 2.6W AC100-240V 3.8W DC12V/24V 2.6W AC100-240V AC100-240V BC12V/24V AC100-240V BC12V/24V AC100-240V BC12V/24V AC100-240V BC12V/24V AC100-240V BC12V/24V AC100-240V	(210mm) (330mm) 100-240V AC 100-240V AC AC100-240V 33mA 67mA DC12V/24V 215mA 409mA AC100-240V 3.8W 7.5W DC12V/24V 2.6W 4.9W AC100-240V 3.8W 7.5W DC12V/24V 2.6W 4.9W AC100-240V 0. 4.9W DC12V/24V 2.6W 4.9W AC100-240V 0. 4.9W DC12V/24V 0. 4.9W AC100-240V 0. 4.9W DC12V/24V 0. 4.9W AC100-240V 0. 4.9W AC100-240V 0. 3.8W AC100-240V 0. 3.8W AC100-240V 0. 4.9W AC100-240V 0. 1.9W AC100-240V 1.9W 1.9W	(210mm)(330mm)(580mm)C200-240VCV24V100-240V100-240V10.84AC100-240V33mA67mA96mA96mADC12V/24V215mA409mA880mA9AC100-240V3.8W7.5W9.2W9.2WDC12V/24V2.6W4.9W10.6W10.6WDC12V/24V2.6W4.9W10.6W10.6WAC100-240VC100-240V10.6W10.6WAC100-240VC	Ideal				

AC100V input for AC100 - 240V; DC12V input for DC12V/24V
 LED life is dependent on the operating environment and conditions.

LED Optical Specifcations

Illumination Color	White									
Color Temperature/ Dominant Wavelength (typ.)	5,500K									
Part Number	LF2B-B (210mm)		LF2B-C (330mm)		LF2B-D (580mm)		LF2B-E (830mm)		LF2B-F (1,080mm)	
Luminus Flux	180 lm		360 lm		720 lm		1,080 lm		1,440 lm	
Illumination Surface	Clear	Diffused	Clear	Diffused	Clear	Diffused	Clear	Diffused	Clear	Diffused
Reference Brightness (typ.) at 0.5m	230 lx	215 lx	425 lx	390 lx	710 lx	645 lx	930 lx	835 lx	1,160 lx	1,040 lx

Note: Due to the variability of LED modules, products with same model number may vary slightly in illumination color and luminance.

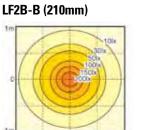
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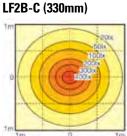


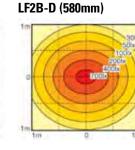
LED Machine Lighting

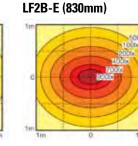
Illuminance Charts (Clear light at 0.5m)

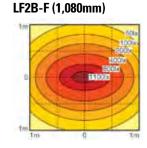




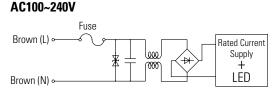


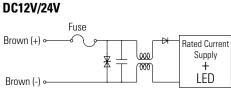






Circuit Diagram



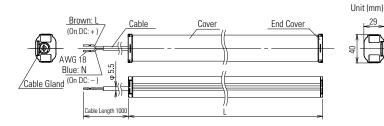


	+ LED			
Par	t Number	L (mm)	Inch	
LF2B-B□P	-�THWW2-1M	210	8.27	
LF2B-C□P	-�THWW2-1M	330	12.99	
I F2B-D⊡F	-∽THWW2-1M	580	22.83	

32.68

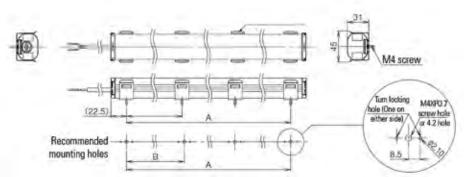
42.52

Dimensions (mm)

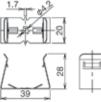


LF2B-D□P-◇THWW2-1M 580 LF2B-E□P-◇THWW2-1M 830 LF2B-F□P-◇THWW2-1M 1,080

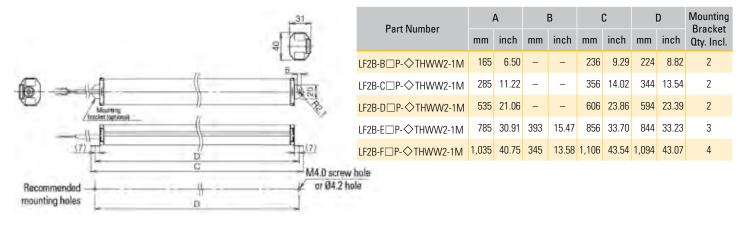
With Mounting Bracket (U-shape): LF9Z-1SB21 (Included in each unit)







With Mounting Bracket (L-shape): LF9Z-1SB22 (order separately)

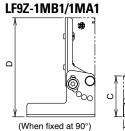


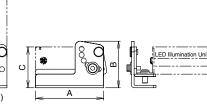
IDEC

Cable Gland Cable ltem Mounting Bracket Part No. LF9Z-1MB1 LF9Z-1MA1 LF9Z-B12 LF9Z-B11 LF9Z-1MDE1 LF9Z-1MDF1 LF9Z-1SE1 LF9Z-A11 LF9Z-C05 Applicable LF1B-NA, -B, -C LF1A-A, -B, -D LF1D (Slim) LF1D (Wide) LF1E LF1D LF1D Unit (-D not applicable) Material Stainless Steel Brass PVC M8, applicable 1 pair Notes 1 piece wire size (10-12 Length: 5m Left and Right AWG)

Accessories

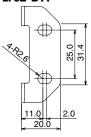
Dimensions (mm)

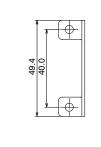


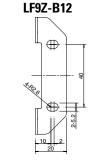


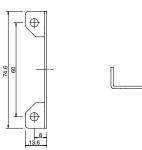
Part No.	A		В		С		D	
Fall NU.	mm	inch	mm	inch	mm	inch	mm	inch
LF9Z-1MB1	27.5	1.08	35.2	1.39	27	1.06	50.5	1.99
LF9Z-1MA1	55	2.17	37.9	1.49	33	1.30	80	3.15



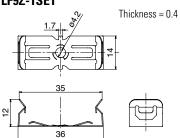




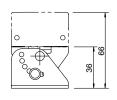


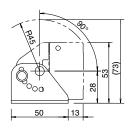






LF9Z-1MDE1





LF9Z-1MDF1

