LED Illumination Units

LF2B LUMIFE

Universal input for global applications. Slim, compact, easy to install.

CE



• See website for details on approvals and standards.

Slim & Compact

Universal input power supply is housed in a thin, 29-mm high housing. Clear or white cover is available.

Universal Input

100 to 240V AC

Versatile universal input can be used worldwide in various applications.



12V/24V DC

12/24V DC input is suitable for batteryoperated equipment Ideal for battery-operated equipment or applications that are required to operate in emergency, such as solar power equipment.



Two easy mounting styles

Quick and easy installation

L-shaped (optional) or U-shaped (supplied) mounting brackets available for mounting.



IP65 waterproof & dustproof



ERMEC

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LF2B LED Illumination Units

Universal input (100 to 240V AC) and 12/24V DC input models are available.

Compact and slim design suitable for installing in various applications and also in narrow spaces. IP65 (waterproof, dustproof).



Illumination Color	Daylight							
	Clear	r Cover	White	Controller				
Shape					Operator Interfaces Sensors AUTO-ID			
Rated Voltage	100 to 240V AC	12/24V DC	100 to 240V AC	12/24V DC	1.500			
LF2B-B (210mm)	LF2B-B3P-ATHWW2-1M	LF2B-B3P-BTHWW2-1M	LF2B-B4P-ATHWW2-1M	LF2B-B4P-BTHWW2-1M	- LF2B			
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		1			
LF2B-F (1,080mm)	LF2B-F3P-ATHWW2-1M		LF2B-F4P-ATHWW2-1M					

• Use Class 2 power supply when using the LF2B as UL/c-UL listed LED illumination unit (12/24V DC only).

B: 12/24V DC (210, 330, and 580mm lengths only)

Part No. Development

LF2B- <u>C</u> <u>3</u> P - <u>A</u>THWW2 - 1M

Cover Rated Voltage B: 210mm

4: White

3: Clear A: 100 to 240V AC

C: 330mm

D: 580mm

Length

- E: 830mm
- F: 1,080mm

Accessories

Model Part No. Pa		Package Quantity	Remarks				
U-shaped Mounting Bracket	LF9Z-1SB21PN10	10	Supplied with LF2B. LF2B-B, -C, and D: Two brackets are supplied. LF2B-E: Three brackets are supplied. LF2B-F: Four brackets are supplied.				
L-shaped Mounting Bracket	LF9Z-1SB22PN10	10	Two brackets (for right and left) are required for alternate mounting of an LF2B.				
ERMEC. C	RMEC, S.L. BARCELO // Francesc Teixidó, 22 8918 Badalona SP/	info@e	002 450 160 ERMEC, S.L MADRID bilbao@ermec.co rmec.com C/ Puerto Rico, 4 portugal@ermec.co rmec.com 28222 Majadahonda (Madrid) SPAIN				
www.anem-idec.eu							

www.apem-nuec.eu

Control Boxes Emergency Stop Switches

APEM Switches & Pilot Lights

Enabling Switches Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Package quantity: 1 Power Supplies



Operator nterfaces Sensors

LF2B LED Illumination Units

Specifications

LED Illumination

Controllers

Operato Interfaces Sensors AUTO-II

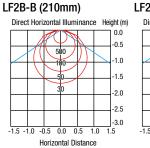
<u> </u>	opeonications								
umination	Model	LF2B-B (210mm)	LF2B-C (330mm)	LF2B-D (580mm)	LF2B-E (830mm)	LF2B-F (1,080mm)			
lati	Rated Voltage		100 to 240V AC, 50/60 Hz (voltage range: 90 to 264V AC)						
9			12/24V DC (voltage range: 10.8 to 30V DC)						
	Input Current (typ.) (at the rated current) (*1)	100 to 240V AC	28 mA	57 mA	80 mA	128 mA	165 mA		
		12/24V DC	215 mA	409 mA	880 mA				
	Power Consumption (typ.)	100 to 240V AC	2.2W	4.4W	7.8W	12.2W	15.9W		
APEM	(at the rated voltage)	12/24V DC	2.6W	4.9W	10.6W		•		
Switches &	Insulation Resistance		100MΩ min. (500V DC meggar)						
Pilot Lights	100 to 240V AC		2,000V AC, 1 minute	(between live and dea	d parts)				
Control Boxes	Dielectric Strength	12/24V DC	1,000V AC, 1 minute	1,000V AC, 1 minute (between live and dead parts)					
Emergency	Vibration Resistance (damage limits)		Frequency: 5 to 55 Hz, Amplitude 0.17 mm						
Stop Switches		Acceleration 20m/s ² , 2 hours each in 3 axes							
Enabling	Shock Resistance (damage limits	300m/s ² , 5 shocks each in 6 axes							
Switches	Operating Temperature		-30 to +55°C (no condensation)						
Safety Products	Operating Humidity	45 to 85% (no freezing)							
Explosion Proof	Storage Temperature	-35°C to +70°C (no condensation)							
	Operating Atmosphere	No corrosive gas							
Terminal Blocks	Life (*2)	40,000 hours (Ta = 25° C) (The total illumination life in which the illuminance maintains a minimum of 70% of the initial value.)							
Relays & Sockets	Degree of Protection	IP65 (IEC 60529)							
Circuit	Material		Cover: polycarbonate, End cover/cable gland: polyamide. Wire: PVC (AWG18×2C)						
Protectors		100 to 240V AC	200g	255g	400g	520g	645g		
Power Supplies	Weight (approx.)	12/24V DC	175g	235g	370g	-	-		
LED Illumination	*1) 100 to 240V AC: at 100V AC, 12/24V DC: 12V DC *2) LED life depends on the operating environment.								

LED Optical Specifications

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s I	Illumination Color	Daylight	Daylight								
s	Color Temperature	6,500K	3,500K								
	Model LF2B-B (210mm)		LF2B-C (330mm)		LF2B-D (580mm)		LF2B-E (830mm)		LF2B-F (1,080mm)		
)	Cover	Clear	White	Clear	White	Clear	White	Clear	White	Clear	White
	Luminous Flux (typ.)	235 lm	215 lm	465 lm	425 lm	935 lm	860 lm	1,380 lm	1,270	1,860 lm	1,710 lm
	Reference Illuminance (typ.) at 0.5m directly below	290 lx	265 lx	540 lx	500 lx	1,065 lx	980 lx	1,385 lx	1,275 lx	1,520 lx	1,400 lx

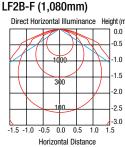
• LED modules and illumination units may vary in illumination colors and illuminance.

Illuminance Distribution at 0.5m (clear cover) LF2B-D (580mm)



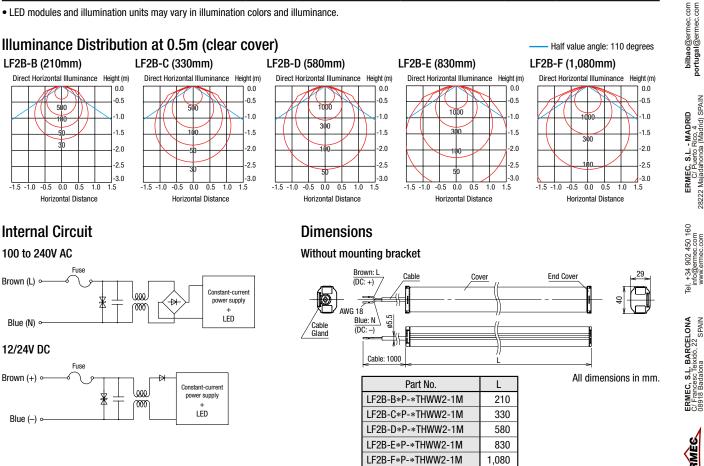


Half value angle: 110 degrees



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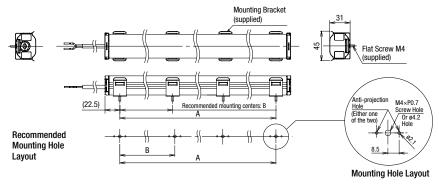
ERMEC



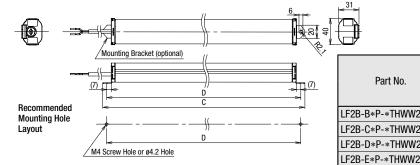
LF2B-E (830mm)

LF2B LED Illumination Units

With mounting bracket LF9Z-1SB21 (U-shaped brackets supplied with LED)



With mounting bracket LF9Z-1SB22 (L-shaped bracket purchased separately from LED)



Required No. of Mounting Bracket А В С D LF9Z-1SB21 LF9Z-1SB22 (*1) LF2B-B*P-*THWW2-1M 224 165 236 LF2B-C*P-*THWW2-1M 285 356 344 2 LF2B-D*P-*THWW2-1M 2 535 606 594 LF2B-E*P-*THWW2-1M 785 393 856 844 3 LF2B-F*P-*THWW2-1M 1,035 345 1,106 1.094 4 *1) Supplied with LF2B.

Safety Precautions

- Do not disassemble, repair, or modify LF2B. Otherwise electric shock, fire, or malfunction may occur.
- Turn off power before wiring. To prevent electric shock or damage, ensure that the wiring is correct.
- . Do not stare directly into the LF2B while it is lit, and do not project the light towards other people, otherwise their eyes may be injured.
- The LF2B is general-purpose industrial electric device. Do not use with electronic equipment which may cause harm or injury to anyone or threaten life in case a malfunction or failure occurs.

- **Operating Instructions**
- LED modules may vary in illumination colors and illuminance.
- · Before designing equipment and powering up units, confirm the specifications described in the instruction sheet.
- · Apply voltage within the rated values, otherwise the LED elements may be damaged.
- The LF2B is vulnerable to static electricity. Take sufficient measures for protection against static electricity and voltage surges.
- Make sure that the unit is not dropped during transportation, installation, and operation, otherwise damage may result.
- Do not pull or push the cable, otherwise damage may result. Allow sufficient slack to the cable while wiring.
- Do not apply excessive force. Do not leave a damaged unit unattended or use a damaged unit.
- Do not use or store in a location subjected to vibration and shock.

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- . Do not use in the following locations:
 - * Exposure to direct sunlight, near heaters, high temperatures
 - * Subject to oil, metal powder, chemicals, and corrosive gases (Plastic illumination surface: avoid iron powder and oil)
 - * Places with high humidity such as basements and greenhouses
 - * Cold storage warehouses (make sure that no freezing occurs)
- . Do not loosen screws, otherwise the protection characteristics will be impaired.
- To clean the cover, use a soft cloth with water or neutral detergent. Do not use solvents such as thinners, benzene, or alkaline, otherwise discoloration, deterioration, or decrease in strength may occur.
- The edge of the cable sheath is not waterproof construction. Water may invade the LF2B in a capillary action when water splashes directly onto the cable sheath.

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Mounting bracket LF9Z-1SB21

Mounting bracket LF9Z-1SB22



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Control Boxes Emergency Stop Switches

Pilot Lights

APEM Switches &

LED Illumination

Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

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Relavs & Sockets
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Circuit Protectors

Power Supplies

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LED Illuminatio
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Controllers Operator Interfaces

Sensors AUTO-ID

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