

Think Automation and beyond...



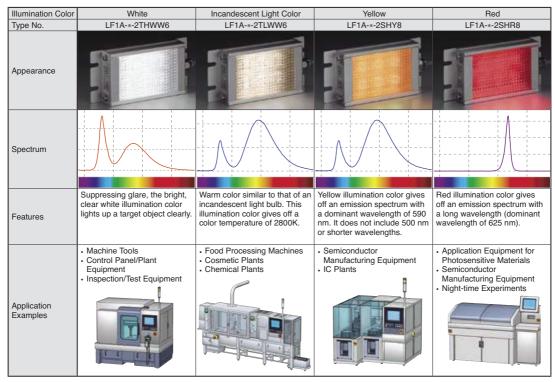
LF1A Series LED Illumination Units

Standard Types

LED module and high heat-radiation technology allow for thin LED housing



Features and Applications by Illumination Color



Types

Illumination Color LED Arrangement	White	Incandesent Light Color	Yellow	Red
3 LEDs x 2 rows	LF1A-A1-2THWW6	LF1A-A1-2TLWW6	LF1A-A1-2SHY8	LF1A-A1-2SHR8
6 LEDs x 2 rows	LF1A-B1-2THWW6	LF1A-B1-2TLWW6	LF1A-B1-2SHY8	LF1A-B1-2SHR8
12 LEDs x 2 rows	LF1A-D1-2THWW6	LF1A-D1-2TLWW6	LF1A-D1-2SHY8	LF1A-D1-2SHR8

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LF1A Series LED Illumination Units (Standard Types)

Specifications

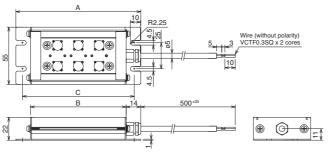
General Specifications

Type No.		LF1A-*-2THWW6	LF1A-*-2TLWW6	LF1A-*-2SHY8	LF1A-*-2SHR8	
Rated Voltage		24V DC (without polarity)				
Input Current 3 LEDs x 2 rows		75 mA		90 mA		
(typ.) (at rated voltage)	6 LEDs x 2 rows	150 mA		180 mA		
	12 LEDs x 2 rows	300 mA		360 mA		
Rated Power	3 LEDs x 2 rows	1.8W		2.2W		
(typ.) 6 LEDs x 2 rows	3.6W		4.4W			
(at rated voltage)	ed voltage) 12 LEDs x 2 rows 7.2W			8.7W		
Dielectric Strength		Between live and dead parts: 1000V AC, 1 minute				
Insulation Resistance		Between live and dead parts: 100 MΩ (500V DC megger)				
Operating Temperature		-20 to +50°C				
Storage Temperature		-25 to +70°C				
Operating/Storage Humidity		45 to 85% RH (no condensation)				
Life (half luminance)		40,000 hours				
Weight (approx.)		LF1A-A1: 190g, LF1A-B1: 270g, LF1A-D1: 470g				
Degree of Protection		IP40				

• LED Optical Specifications

Type No.		LF1A-*-2THWW6	LF1A-*-2TLWW6	LF1A-*-2SHY8	LF1A-*-2SHR8
Illumination Color		White	Incandescent Light Color	Yellow	Red
Luminous Intensity (typ.) (Single LED module)		6000 mcd	4000 mcd	4000 mcd	2500 mcd
Color Temperature (typ.) / Dominant Wavelength (typ.)		5500K	2800K	590 nm	625 nm
Reference	3 LEDs x 2 rows	190 lx	130 lx	130 lx	85 lx
Illuminance (typ.)	6 LEDs x 2 rows	380 lx	260 lx	260 lx	170 lx
at 500 mm	12 LEDs x 2 rows	760 lx	520 lx	520 lx	340 lx

Dimensions

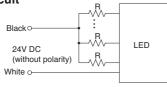


Dimension List

Type No.	Α	В	С
LF1A-A1-*	120	92	108
LF1A-B1-*	180	152	168
LF1A-D1-*	300	272	288

All dimensions in mm.

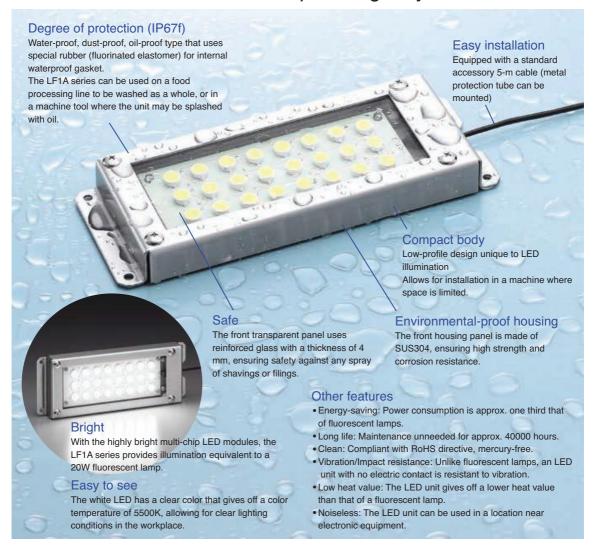
Internal Circuit





Water-, Dust-, and Oil-Proof Types

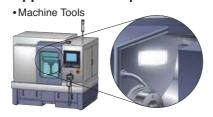
Environmental-proof LED illumination units can be used in environments where water/oil spattering may occur.



Types

Illumination LED Color Arrangement	
8 LEDs x 3 rows	LF1A-D2F-2THWW6

Application Examples



- Food Processing Lines
- Automotive/Outdoor Equipment, etc.

• Semiconductor Manufacturing Equipment



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LF1A Series LED Illumination Units (Water-, Dust-, and Oil-proof)

Specifications

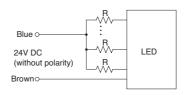
General Specifications

Rated Voltage	24V DC (without polarity)	
Input Current (typ.)	300 mA (at rated voltage)	
Rated Power (typ.)	7.2W (at rated voltage)	
Operating Temperature	-20 to +50°C	
Storage Temperature	-25 to +70°C	
Operating/Storage Humidity	45 to 85% RH (no condensation)	
Life (half luminance)	40,000 hours	
Insulation Resistance	100 MΩ minimum (500V DC megger)	
Dielectric Strength	1000V AC, 1 minute (between live and dead parts)	
Vibration Resistance (damage limits)	5 to 55 Hz, amplitude 0.5 mm, 20 m/s ²	
Shock Resistance (damage limits)	980 m/s²	
Material	Housing: SUS Glass: Reinforced glass Rear panel: Aluminum Electric wire: US20276T 0.2 mm² x 2c	
Weight (approx.)	850g	
Degree of Protection	IP67f	

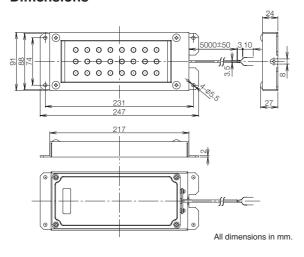
• LED Optical Specifications

Illumination Color	White
Chromaticity Coordinate Value (typ.)	X: 033,Y: 0.33
Luminous Intensity (typ.) (Single LED module)	6000 mcd
Color Temperature (typ.)	5500K
Reference Illuminance (typ.) at 500 mm	600 lx

Internal Circuit



Dimensions



PS5R-S Switching Power Supplies

Slim size DIN rail mount switching power supplies with finger-safe terminals

- Compact and light-weight
- Width: 22.5 mm (10W/15W), 36 mm (30W/60W), 46 mm (90W), 50 mm (120W), 80 mm (240W)
- DIN rail mounting. Optional mounting bracket is available for panel mounting.
- CE marked (LVD and EMCD)
- UL508, UL1604, UL1310 Class 2*, CSA C22.2 No. 14, No. 213, No.223*, EN 60950-1, EN50178 compliant. *(PS5R-SB/SC/SD only)
 EN61204-3 (DC power supply EMC Directive Class B) VCCI Class B
- EN61204-3 (DC power supply EMC Directive Class B) VCCI Class B compliant
- Meets SEMI F47 Sag Immunity (PS5R-SF/SG)
- RoHS compliant
- · Three-year Warranty



Specifications and other descriptions in this catalog are subject to change without notice.



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Cat. No. EP1219-0 SEPTEMBER 2008 PDF