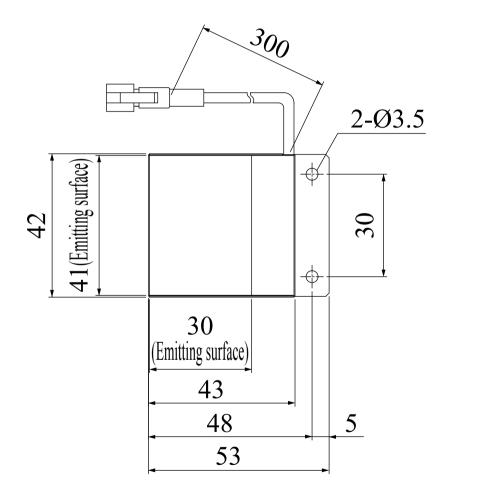
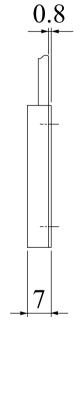
LFL-1012P/-SW-P/-GR-P/-BL-P

Model	LFL-1012P	LFL-1012-SW-P/-GR-P/-BL-P
Voltage	12V DC	24V DC
Power consumption	0.6W	0.8W
Mass	30g	30g
Connector type	2P (1: +, 2: -)	3P (1: +, 2: NC, 3: -)

Third Angle Projection Units: mm





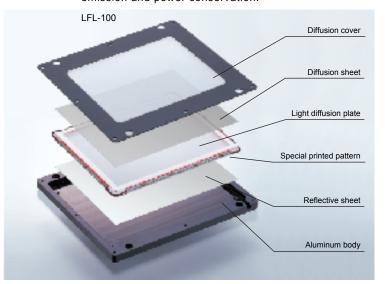


Flat Lights LFL Series



Proprietary technology achieves uniform surface light emission

The use of the CCS proprietary light conduction method makes it possible to achieve uniform surface light emission and power conservation.



In addition, the LEDs that are arranged around the periphery of the light diffusion plate are sealed to the plate with a transparent fixing material. Light from the LEDs is refracted and scattered in a complex manner by the fixing material to reduce directivity and attain a uniform light.

Ultra-thin design

The ultra-thin design of the LFL Series is achieved by wrapping the LEDs around the perimeter of a light diffusion plate. Also, by using a special manufacturing process, a very uniform light output is produced that is unparalleled in the industry.



Inspecting for defects in rectangular PET bottles Inspecting the level of a liquid in bottles



Full line-up

White, blue and green colors are available as custom products in addition to the standard red. A wide variety of sizes are available to match the application.

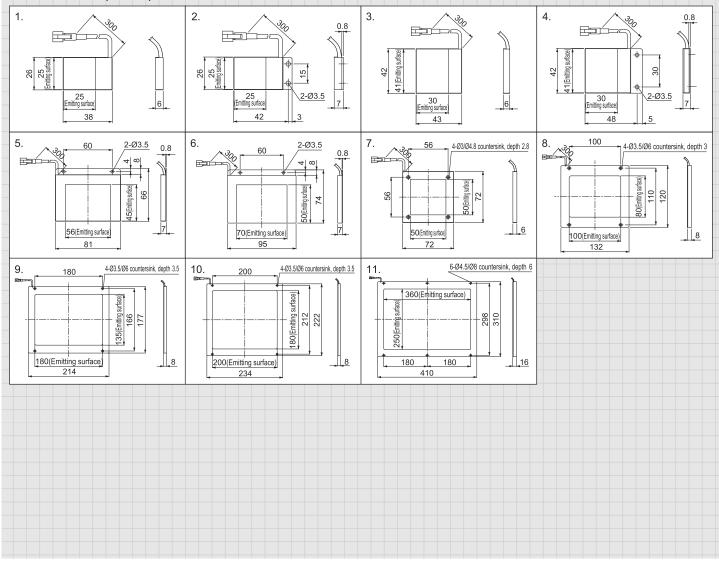


Product Lineup Table

Series	Model Name	Color	Power Consumption	Options	Dimension
	LFL-612	•	12V/0.3W	_	1
	LFL-612-SW/-GR/-BL	0/•/•	24V/0.4W	_	
	LFL-612P	12V/0.3W	_	2	
		24V/0.4W	_		
	LFL-1012	•	12V/0.6W	_	3
LFL	LFL-1012-SW/-GR/-BL	0/•/•	24V/0.8W	_	3
	LFL-1012P	•	12V/0.6W	_	4
	LFL-1012-SW-P/-GR-P/-BL-P	0/•/•	24V/0.8W	_	4
	LFL-3212 • 12V/1.8W	_	- 5		
L	LFL-3212-SW/-GR/-BL	0/•/•	24V/2.4W	_	3
	LFL-4012 • 12V/2.	12V/2.1W	_	6	
	LFL-4012-SW/-GR/-BL	O/ ● / ●	24V/2.9W	_	0

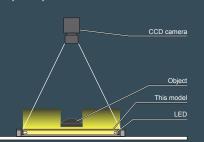
Series	Model Name	Color	Power Consumption	Options	Dimensio
LFL	LFL-50	•	12V/2.4W	_	7
	LFL-50-SW/-GR/-BL	0/•/•	24V/3.3W	_	
	LFL-100	•	12V/4.2W	L	8
	LFL-100-SW-P/-GR-P/-BL-P	0/0/0	24V/5.7W	L	
	LFL-180	•	12V/7.2W	L	9
	LFL-180-SW/-GR/-BL	0/0/0	24V/9.8W	L	
	LFL-200	•	12V/9.0W	L	10
	LFL-200-SW-P/-GR-P/-BL-P	0/0/0	24V/12W	L	
	LFL-360	•	12V/27W	_	11
	LFL-360-SW/-GR/-BL	0/0/0	24V/40W	_	

Dimensions (Unit: mm)



Illumination Structure of LFL-100

Light from the LEDs that are arranged around the periphery of the light diffusion plate passes through the plate to produce uniform illumination.



Examples of Flat-lights Illumination images

Inspecting printing on tape cassettes

Image as seen with the human eye in normal light.



parts are also being imaged and it makes inspection difficult.



The entire object is evenly illuminated and the printed surface stands out clearly.

Light used: LFL-100



Brightness Distribution and luminosity Characteristics of the LFL-4012

Illustrates how the light emitted from the LEDs passes through the diffusion plate and creates illumination. A low level of luminosity is evenly maintained.

