

Bar Light LDLB Series



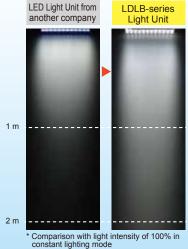


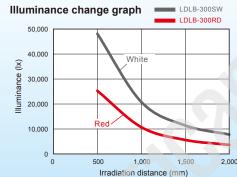
Bright Bar Lights with Overdrive Li

500 mm

Features

Long-distance irradiation





* Actual measured values at the center of the irradiated area by distance with a 100% light intensity.

(This data is for reference only and does not guarantee product quality.)

Overdrive lighting

Just one Lighting Unit provides both constant lighting and overdrive lighting.





Approx. three times output

* Operating time of the overdrive lighting depends on the light intensity. Refer to the Instruction Guide for details.

Select either a sinking (NPN) or sourcing (PNP) input for the control signals to matches your environment.

Applications

Inspections in pharmaceutical industry



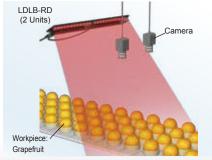
Inspections in packaging industry
Bottle cap appearance and tightening



Inspections in textile industry Foreign matter and blots on and



Inspections in foodstuff industry Size of fruit



Presence of engine parts

Mounting screws for head covers

Oil caps
Oil filters and others

Positions of holes on door parts

Mounting holes for door locks
Mounting holes for side mirrors and others

Mounting holes for side mirrors and others

ghting to Handle Large Workpieces

1,000 mm

2.000 mm

Conceptual illustration

Daisy-chain connections

You can daisy-chain up to three Light Units with a high degree of layout freedom.

> IP67-level waterproofing

A waterproof model is available that is ideal for production lines that are regularly cleaned.



Built-in Controller

You can easily operate the Light Unit from the control panel.



Constant lighting mode



Overdrive mode

Hold down two buttons to change the operating mode between constant lighting and overdrive lighting.

Mode switching

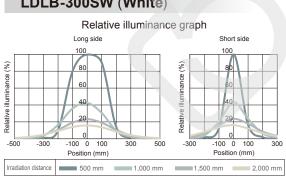
Light intensity setting



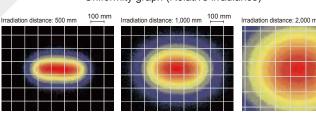
- +: Increases the light intensity
- decreases the light intensity
- You can set the light intensity to any of 100 levels

Data

LDLB-300SW (White)

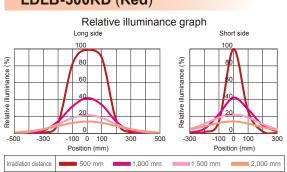


Uniformity graph (Relative irradiance)

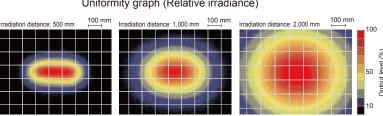


* This data is for reference only and does not guarantee product quality

LDLB-300RD (Red)



Uniformity graph (Relative irradiance)



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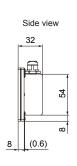
Common specifications

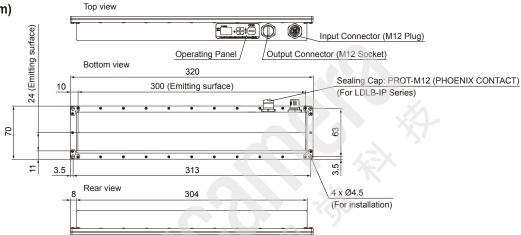
	•							
Series	LDLB series		LDLB-IP series (waterproof)		ON/OFF control	External signal input Both sinking (NPN) and sourcing (PNP) input are available.		
Model name	LDLB-300SW-N	LDLB-300RD-N	LDLB-IP-300SW-N	LDLB-IP-300RD-N		to turn ON the Light You can switch the logic for turning the light ON and OF		
Protective structure	_		IP67 compliant (JIS C 0920)		Weight	500 g		
LED color	White	Red	White	Red	Accessories	Instruction Guide x1		
Correlated color temp. (typ.)	6,100 K	-	6,100 K	-	CE marking	Safety standard: Conforms to EN62471, EMS standard: Conforms to EN61000-6-2, EMI standard: Conforms to EN61000-6-4		
Peak wavelength	-	630 nm	-	630 nm	Environmental regulations	RoHS compliant		
Power consumption (max.)	31 W	24 W	31 W	24 W	Case material	Aluminum alloy, Resin		
Input voltage (rating)	24 VDC				Operating environment (indoors only)	Temperature: 0 to 40°C, Humidity: 20 to 85%RH (with no condensation)		
Input voltage (range)	22.8 to 26.4 VDC				Storage Environment	Temperature: -20 to 60°C, Humidity: 20 to 85%RH (with no condensation)		
Input current (rating)	Continuous mode: 1.3 A max., Overdrive mode: 6 A max.				Cooling method	Natural air cooling		
Input connector	M12 (5 pins, plug)				Light spectrum	€ 100 N N		
Output connector	M12 (5 pins, socket)					80 White 6,100 K Red 630 nm		
Inrush current (max.)	6 A from a cold start					iii 40		
Intensity	Manual: Set any of 100 steps via the setting switch.					20		
control	External: Analog voltage(0 V to +10 V)					⊕ 350 400 450 500 550 600 650 700 750 8 Wavelength (nm)		
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Dimensions (mm)







Options

Input cable

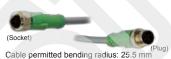
This cable supplies power to the Light Unit and inputs signals for light intensity control or to turn the light ON and OFF.



Model	FECB-1-M12-5F	FECB-2-M12-5F	FECB-3-M12-5F	FECB-5-M12-5F
Length	1 m	2 m	3 m	5 m
Weight	55 g max.	90 g max.	130 g max.	210 g max.

Link cable

This cable is used to daisy-chain Light Units.



Model	FECB-0.6-M12-5M-5F 0.6 m 50 g max.		
Length			
Weight			

System configuration example

Example: Daisy-chaining three Light Units LDLB series (External control) Input cable Linking cables x2 (FECB-0.6-M12-5M-5F) (FECB-n-M12-5F)

Maximum length of optional cables

in Constant Lighting Mode		iii Overdrive iviode				
1	2	3	1	2	3	
10 m	7 m	4.5 m	3 m	1 m	Cannot be used.	
Number of Light Units	1	The table gives the maximum length of the Input Cable.				
	2 or 3	The table gives the maximum total length of the Input Cable and Link Cables.				

Number of Light Units connected Number of Light Units connected

The wire diameter is AWG22 for the optional cables. If the maximum length given above is exceeded, shorten the Input Cable or contact CCS.

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CAUTION

To ensure proper and safe use of the product, please read the Instruction Guide completely before using the product.
 The design and specifications of this product are subject to change without notification for product improvement.
 The workpiece imaging examples included in this pamphlet are intended to serve only as references to help you select a suitable Light Unit. Please verify the functionality and conditions required for your particular application before you make a final selection. The sample workpieces used in this pamphlet have been processed specifically for sample imaging. They are not intended to represent product quality and performance.

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