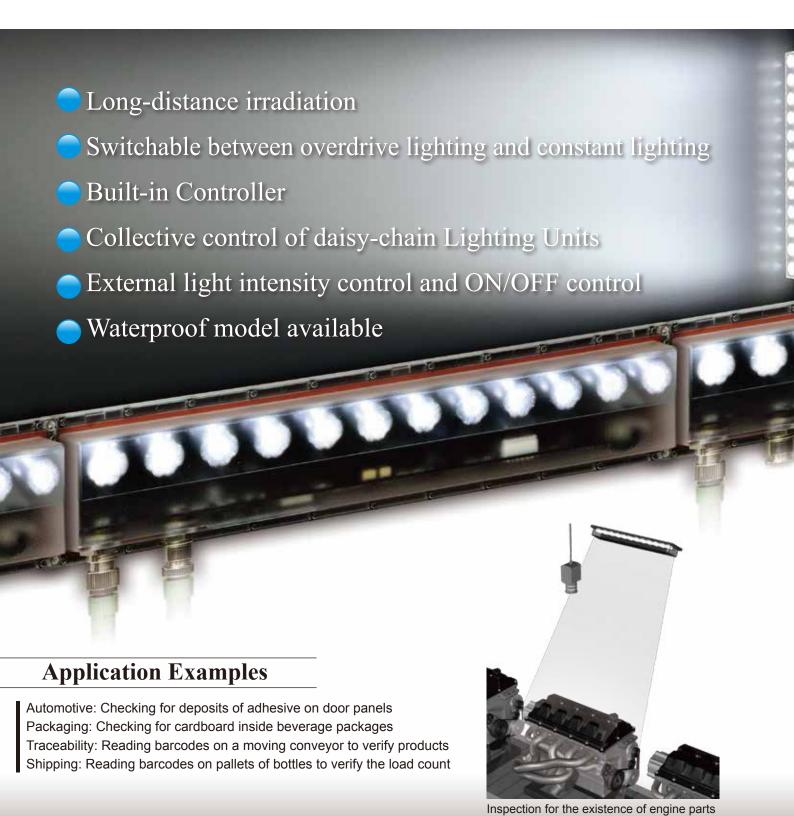
LDLB series



Bar Light LDLB Series





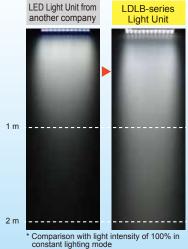
Bright Bar Lights with Overdrive Li

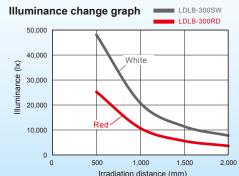


500 mm

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

Presence of tablets



Inspections in packaging industry
Bottle cap appearance and tightening

LDLB-SW

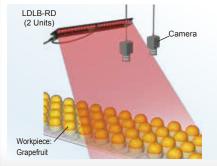
Camera

Inspections in textile industry Foreign matter and blots on and



Inspections in foodstuff industry Size of fruit

Workpiece: Bottle cap



Surfaces of transmission parts

Oil pump rotors
Gears
Shafts and others

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 door knobs
Mounting holes for side mirrors and others

Inspections in automotive industry

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.



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

Mode switching



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

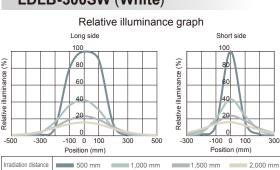
Light intensity setting



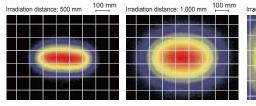
- +: Increases the light intensity
- decreases the light intensity
- You can set the light intensity to any of 100 levels

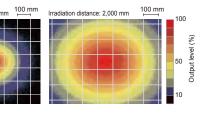
Data

LDLB-300SW (White)



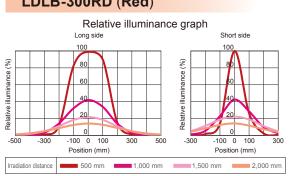
Uniformity graph (Relative irradiance)



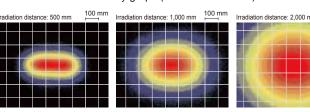


* This data is for reference only and does not guarantee product quality

LDLB-300RD (Red)



Uniformity graph (Relative irradiance)



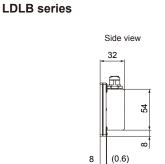
* This data is for reference only and does not guarantee product quality

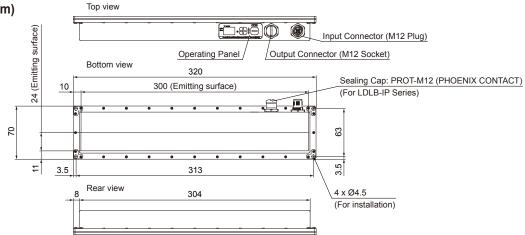
Common specifications

Series	LDLB	series	ries 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 OFF.	
Protective structure	-	-	IP67 compliar	it (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 Continuous mode: 1.3 A max., Overdrive mode: 6 A max.				Storage Environment	Temperature: -20 to 60°C, Humidity: 20 to 85%RH (with no condensation)	
Input current (rating)				6 A max.	Cooling method	Natural air cooling	
Input connector	M12 (5 pins, plug) M12 (5 pins, socket)			Light spectrum	€ 100 A		
Output connector					80 White 6,100 K		
Inrush current (max.)	6 A from a cold start					iii 40	
Intensity	Manual:	Set any of 100 st	eps via the setting s	witch.		20	
control	External:			② 350 400 450 500 550 600 650 700 750 800 Wavelength (nm)			

^{*} This data is for reference only and does not guarantee product quality.



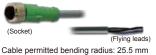




Options

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.



	(Flying leads)
d bending radiu	s: 25.5 mm

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.



			1	_ \	(Plug)
Cab	le permitted	bending	radius:	25.5	mm m

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

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

Number of in Con	f Light Units of stant Lighting	connected g Mode	Number of Light Units connected in Overdrive Mode		
1	2	3	1	2	3
10 m	7 m	4.5 m	3 m	1 m	Cannot be used.
	1	The table give	es the maximu	m length of the	e Input Cable.

Number of	1	The table gives the maximum length of the Input Cable.
Light Units	2 or 3	The table gives the maximum total length of the
	2013	Input Cable and Link Cables.

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

• "CCS", "LIGHTING SOLUTION", and "LDLB" are registered trademarks or trademarks of CCS Inc

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.

Vision Light Tech B.V.

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