



## Bar Light LDLB Series

## Cong-distance irradiation

- Switchable between overdrive lighting and constant lighting
- **Built-in** Controller
- Collective control of daisy-chain Lighting Units
- External light intensity control and ON/OFF control
- OWaterproof model available

## **Application Examples**

Automotive: Checking for deposits of adhesive on door panels Packaging: Checking for cardboard inside beverage packages Traceability: Reading barcodes on a moving conveyor to verify products Shipping: Reading barcodes on pallets of bottles to verify the load count



Inspection for the existence of engine parts

CCS Inc.

# Bright Bar Lights with Overdrive Li

#### 500 mm

# FeaturesLong-distance irradiation



## Applications



## Overdrive lighting

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



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



## ghting to Handle Large Workpieces

1,000 mm

Position (mm)

500 mm

Irradiation distance

1.000 mm

Position (mm)

2.000 mm

1.500 mm

2,000 mm

Conceptual illustration



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

### 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 OFF.	
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	s 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	Image: system     Image: s		
Output connector	M12 (5 pins, socket)							
Inrush current (max.)	6 A from a cold start							
	Manual: Set any of 100 steps via the setting switch.							
control	External: Analog voltage(0 V to +10 V)							

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FECB-3-M12-5F

3 m

130 g max.

FECB-5-M12-5F

5 m

210 g max.



Model

Length

Weight

Model Length

Weight

FECB-1-M12-5F

1 m

55 g max.

FECB-0.6-M12-5M-5F

0.6 m

50 g max

## **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.

#### Link cable

This cable is used to daisy-chain Light Units.



Cable permitted bending radius: 25.5 mm

Plug) Cable permitted bending radius: 25.5 mm

(Flying leads)

### System configuration example

#### Example: Daisy-chaining three Light Units



(Socket)

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#### CAUTION

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FECB-2-M12-5F

2 m

90 g max.

maximum length of optional cables										
Number of in Con	f Light Units ( stant Lighting	connected g Mode	Number of Light Units connected in Overdrive Mode							
1	1 2		1	2	3					
10 m	7 m	4.5 m	3 m	1 m	Cannot be used.					
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 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.

To ensure proper and safe use of the product, please read the Instruction Guide completely before using the product.
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.



#### Headquarters

Shimodachiuri-agaru, karasuma-dori, kamigyo-ku, Kvoto 602-8011 JAPAN TEL : +81-75-415-8284 / FAX : +81-75-415-8278 URL : http://www.ccs-grp.com/ E-mail : sales@ccs-inc.co.jp

#### CCS Asia PTE LTD

63 Hillview Avenue #07-10, Lam Soon Industrial Building, Singapore 669569 TEL : +65-6769-1669 / FAX : +65-6769-3422 URL : http://www.ccs-asia.com.sg/ Email : sales@ccs-asia.com.sg

#### CCS America, Inc

5 Burlington Woods Suite 204 Burlington, MA 01803 USA TEL: +1-781-272-6900 / FAX: +1-781-272-6902 URL : http://www.ccsamerica.com/ Email : info@ccsamerica.com

#### CCS Inc. Shanghai Office

Room 308B-309, CIMIC Tower No.1090 Century Avenue, Pu Dong New Area, Shanghai 200120, P.R. China TEL : +86-21-5835-8728 / FAX : +86-21-5835-8928 Email : ccschina@ccs-inc.co.jp

CCS Europe NV/SA Bergensesteenweg 423, Bus 13 1600 Sint-Pieters-Leeuw, Belgium TEL: +32-(0)2-333-0080 / FAX: +32-(0)2-333-0081 Email : info@ccseu.com

#### CCS Inc. Shenzhen office

17B,China Economic Trade Building, 7Rd Zizhu, Zhuzilin, Futian District, Shenzhen 518040 P.R.China +86-755-8279-0477 / FAX : +86-755-8279-0478 Email : ccschina@ccs-inc.co.jp