

Bar Lights

LDLB series

Refer to our website for product details.

CCS LDLB

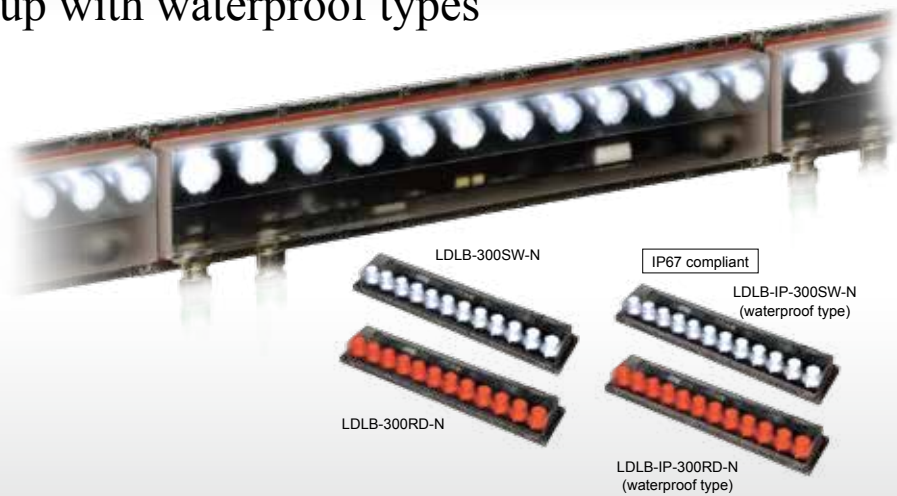
Search



You can also use your smartphone or cell phone.

For quick access.

Bar Light with built-in Controller and lineup with waterproof types

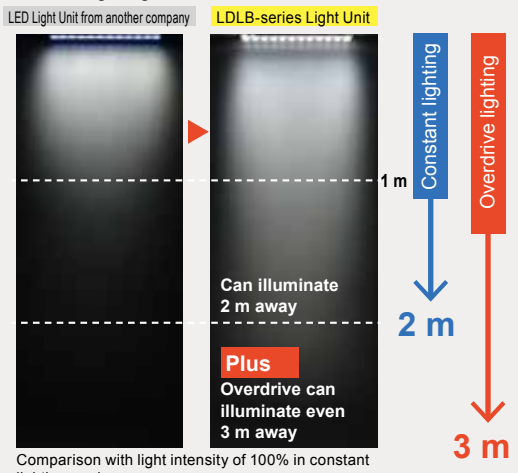


Applications

Light source for robotic picking, visual inspection for beverage packages, mixed models inspection for various parts, inspection for missing mounted parts, visual inspection for large workpieces, etc.

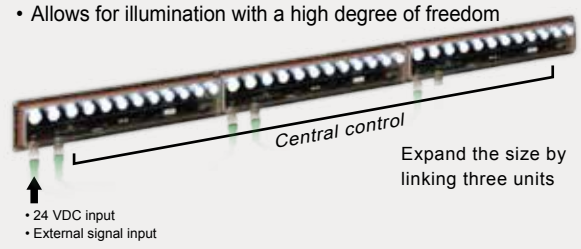
Overdrive can illuminate even 3 m away

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



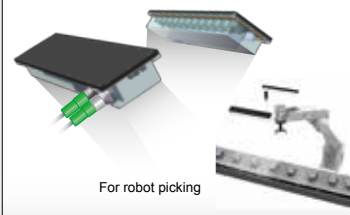
Can be connected in a daisy-chain

- Connect up to three units
- Centrally control the chain externally
- Allows for illumination with a high degree of freedom



Example connection 1

Simultaneous illumination with 2 units



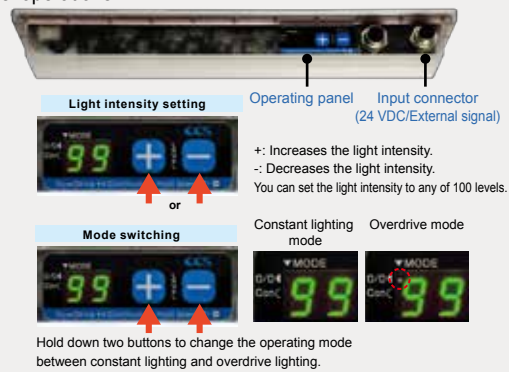
Example connection 2

Simultaneous illumination with 3 units



Built-in Controller, 24 VDC input specifications

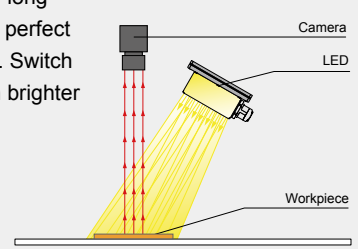
The Controller is built-in, so you don't need a Control Unit for light control. You can set intensity values and switch modes by panel operations.



Example configuration

Bar Light with built-in Controller. Allows for long-distance illumination perfect for large workpieces. Switch to overdrive for even brighter illumination.

LDLB series



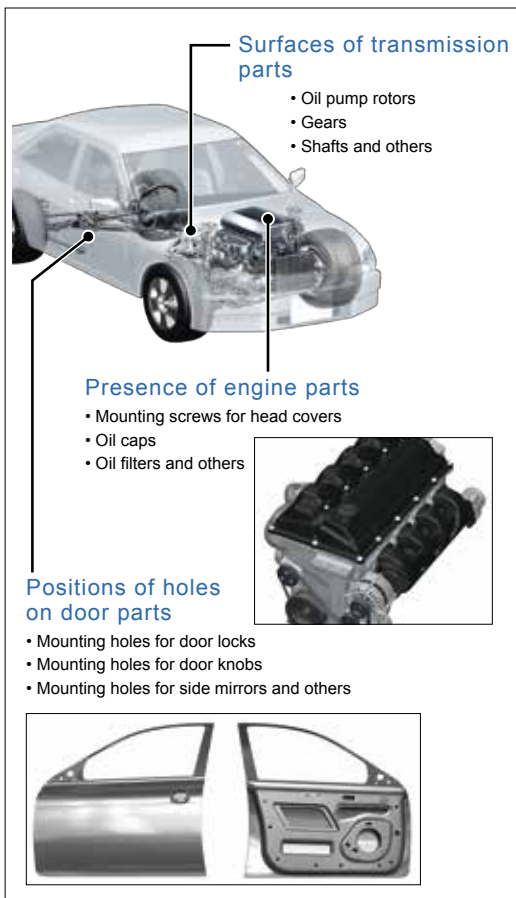
Various technical documents available.

- PDF Drawings
- DXF Drawings
- 3D CAD
- Instruction Guides
- Product Filers
- Imaging Samples
- Data Sheets
- Examples of Custom Ordered Products

Download here.
<http://www.ccs-grp.com/dl/>

Applications

Inspections in automotive industry



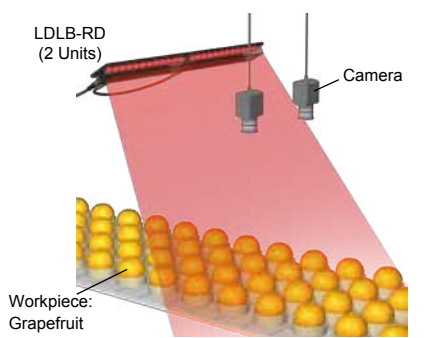
Inspections in packaging industry

Bottle cap appearance and tightening



Inspections in foodstuff industry

Size of fruit



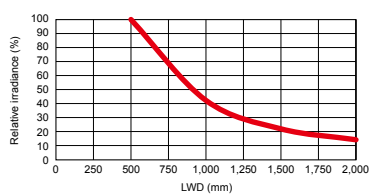
Data: Relative irradiance graph and uniformity (Representative example)

The data included is for reference only. Actual values may vary.

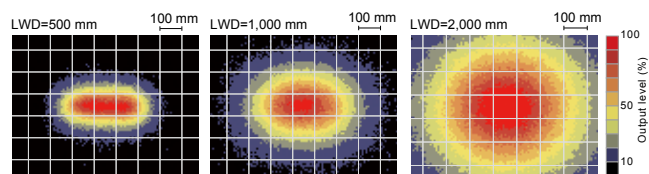
LDLB-300RD-N (Red)

Relative irradiance graph^{*1} (LWD Characteristics)^{*2}

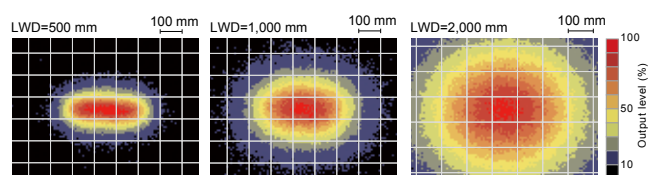
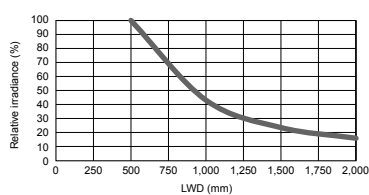
*1: Irradiance on the optical axis
*2: Illuminating distance from the Light Unit to the workpiece



Uniformity (Relative irradiance)



LDLB-300SW-N (White)



Direct Lighting	LDR2
	LDR2-LA
	LDR-LA1
	SQR
Diffused Lighting	SQR-TP
	HPR2
	LFR
	LKR
Direct Lighting	FPR
	FPQ2
	LDL2
	LDLB
Diffused Lighting	HLDL2
	HL
	TH2 (5 types)
	TH
Diffused Lighting	LFL
	HPD2
	LDM2
	LAV
Diffused Lighting	PDM
	LFX3
	LFX3-PT
	LFX2
Collimated Lighting	LFX3
	MSU
	MFU
	PF
Strobe Lighting	HLDR-IP/
	IQ/HSL-PCL
	UV2
	UV
Ultraviolet Lighting	LNSP-UV-FN
	IR2
Infrared Lighting	IU
	HLV2
	LV
	LSP
Spot Lighting, Etc.	HFS/HFR
	HLV2-NR
	HLV2-3M-RGB-3W
	PFBR
Convergent Lighting	PFB2
	LNLP
	LNSP2
	LNSP
Convergent Lighting	Coaxial Units
	LNSP-FN
	LN/LN-HK
Diffused Lighting	LNLD
	LND2
	HLND
	LT
Oblique-Angled Lighting	LNLDN
	LNDG
	LNIS2
	LNIS
Lenses	LNIS-FN
	Telecentric Lens
	Macro Lens

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Search

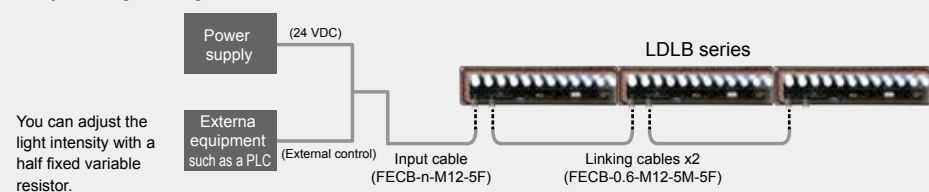


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For quick access.

System configuration example

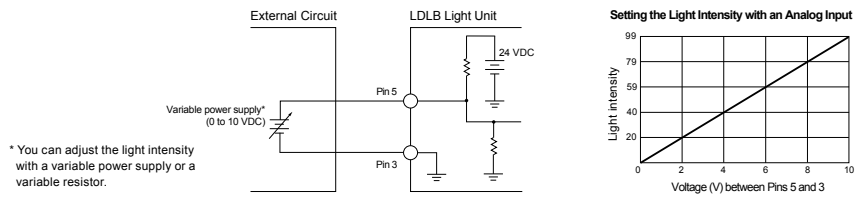
Example: Daisy-chaining three Light Units



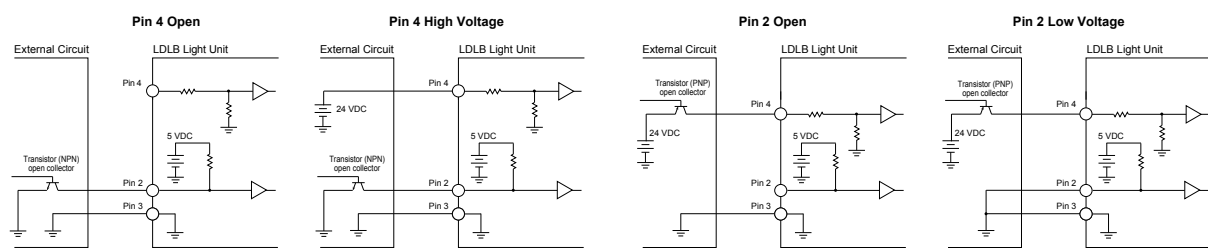
Connection example

Refer to the Instruction Guide for details.

External control of light intensity



ON/OFF Inputs With these Light Units, you can use a sinking input (NPN) or a sourcing input (PNP).



Logic Table

Logic switching	Pin 4	Open	High voltage
Signal input	Pin 2 (NPN)	Open	Low voltage
Operating mode	Constant Lighting Mode	Lit.	Not lit.
	Overdrive Mode	Not lit.	Lit.

Refer to the following table for the low and high voltages.

Pin	Signal input status	Range
Pin 2 (NPN)	Low voltage	0 to 1.1 VDC
Pin 4	High voltage	20.7 to 26.4 VDC

Logic Table

Logic switching	Pin 2	Open	Low voltage
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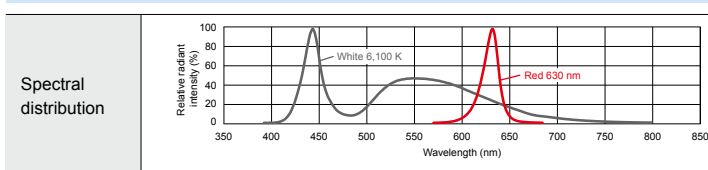
Pin	Signal input status	Range
Pin 2	Low voltage	0 to 1.1 VDC
Pin 4 (PNP)	High voltage	20.7 to 26.4 VDC

Lineup

Model name	Protective structure	LED color	Power consumption	Input voltage (rated)	Input voltage (range)	Peak wavelength/ correlated color temperature	Input/output connectors	Optional cables	Weight
LDLB-300RD-N	—	Red	24 W	24 VDC	22.8 to 26.4 VDC	630 nm	M12 connector	FECB-M12-5F Input Cable	500 g
LDLB-300SW-N		White	31 W			6,100 K			
LDLB-IP-300RD-N	IP67 compliant (JIS C 0920)	Red	24 W			630 nm			
LDLB-IP-300SW-N		White	31 W			6,100 K		FECB-0.6-M12-5F Link Cable	

Optional Cables ▶ P.66

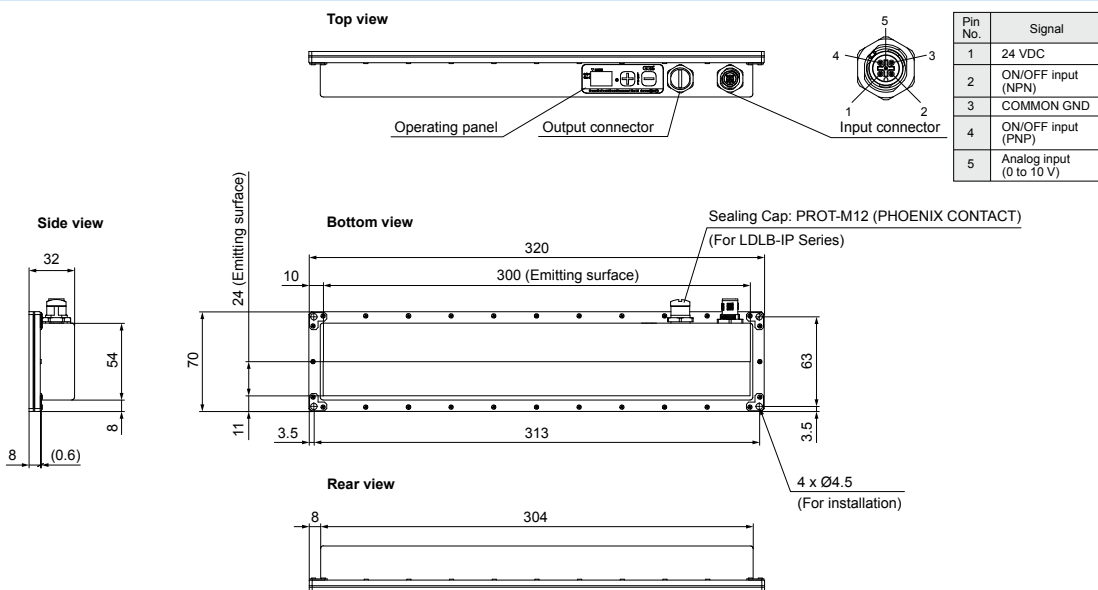
Common specifications



CCS offers you the most suitable lens filter for each wavelength. For details about the lens filter, refer to P.287.

Be sure to read the "Instruction Guide" included with the product before use and follow the safety precautions upon use. The data included is for reference only. Actual values may vary.

Dimensions (mm)



Optional cables

Input cable

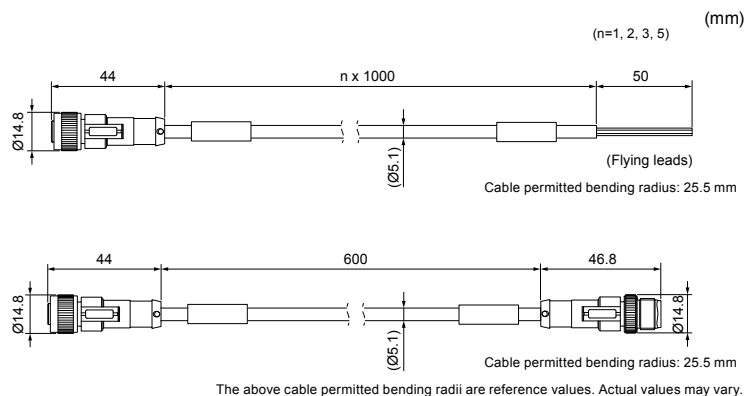
Model name	Length	Weight
FECB-1-M12-5F	1 m	55 g
FECB-2-M12-5F	2 m	90 g
FECB-3-M12-5F	3 m	130 g
FECB-5-M12-5F	5 m	210 g

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

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

This cable is used to daisy-chain Light Units.



Maximum length of optional cables

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

The wire diameter is AWG 22 for the optional cables.

If the maximum length given above is exceeded, shorten the Input Cable or contact CCS. For details, refer to the "Instruction Guide".

Cautionary information regarding waterproofing

- Handle the Light Unit and connectors with care. Do not deform or damage the connectors.
- Connect the cables correctly to the Light Units.
- Connect a Sealing Cap to any output connectors to which a cable is not connected to maintain water resistance. The Sealing Cap is connected to the output connector when the Light Unit is shipped.
- If the Light Unit is not used for a long period of time with the cable disconnected, attach the Cap to the connector.
- After cleaning manufacturing lines, be sure to wipe away any moisture remaining on the emitting surface. Imaging can be affected by moisture on the emitting surface.
- Use water to wash away any cleaning agent adhered to this product.
- Use water to wash away any oils or chemicals adhered to this product.

Note

"IP67" indicates the level of protection against foreign material entering electrical instruments

The 1st numeral "6" indicates the following level of protection:

- No dust inside the instrument. (dustproof)

The 2nd numeral "7" indicates the following level of protection:

- No damage when submerged in water at the rated pressure for the rated time. (watertight type)
- Can be submerged in water to a depth of 1 m (for instruments with a height of less than 850 mm) for 30 minutes.

Direct Lighting	LDR2
	LDR2-LA
	LDR-LA1
	SQR
	SQR-TP
Diffused Lighting	HPR2
	LFR
	LKR
	FPR
	FPQ2
Direct Lighting	LDL2
	LDLB
	HLDL2
	HL
	TH2 (5 types)
	TH
	LFL
	HPD2
Diffused Lighting	LDM2
	LAV
	PDM
	LFX3
	LFX3-PT
	LFX2
	LFV3
Colimated Lighting	MSU
	MFU
Strobe Lighting	PF
Water-proof Lighting	HLDR-IP/
	IQ/HSL-PCL
Ultraviolet Lighting	UV2
	UV
	LNSP-UV-FN
Infrared Lighting	IR2
Intensity Control	IU
	HLV2
	LV
Spot Lighting, Etc.	LSP
	HFS/HFR
	HLV2-NR
	HLV2-3M-RGB-3W
	PFBR
	PFB2
Convergent Lighting	LNLP
	LNSP2
	LNSP
	Coaxial Units
	LNSP-FN
	LN/LN-HK
Diffused Lighting	LNLD
	LNLD2
	HLND
	LT
	LN/V/HLDN
Oblique-Angled Lighting	LNDG
	LNIS2
	LNIS
	LNIS-FN
Lenses	Telecentric Lens
	Macro Lens