LDR-LA1

TH

LFV3

PFB2 PFBR LNSF

HLV2-3M-RGB-3W

CU-LNSP LNSP-FN LN/LN-HK LNSD

HLND LNV/HLDN LNIS LNIS-FN 0

Macro Lens

Line Lights LND2 series



CCS LND2 ▶ Search Use a search engine



Provides diffused light from an emitting surface equipped with LEDs in straight lines



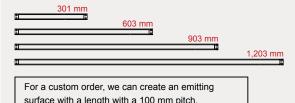
Inspection for damage or dents in metal cylindrical parts, inspection for damage or dents in motor shafts, inspection for foreign material on clear film, dimension measuring for resin molded parts, and dimension measuring for sheet steel, etc.

Suitable for all types of line sensor inspections

This Line Light achieves brightness equivalent to a fluorescent lamp while keeping the price down.

Emitting surface length

You can select from 301 mm, 603 mm, 903 mm, and 1,203 mm.



LED color

For emitted LED color, we have a lineup consisting of:

Red and White

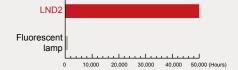
Select your Light Unit based on the details of your inspections.

For a custom order, we can create LEDs that emit blue, green, IR, or UV.

Also perfect for replacing fluorescent lamps

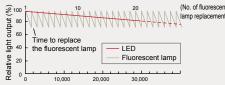
LEDs have a long service life, so the bulbs don't burn out like fluorescent lamps, thus reducing costs for lamp replacement and work hours.

Comparison of service life between the LND2 (red) and a fluorescent lamp



- * Calculated values with an intensity of 100%, ambient temperature of 25°C and a light output drop of up to 50% (This does not guarantee product quality.)
- * Assuming the service life of a fluorescent lamp is 1,500 hours

Change in the amount of light from the LEDs and work hours for replacing fluorescent lamps



* Imaging comparing the change in LED light and a fluorescent lamp that is replaced every 1,500 hours.

Applications

Foreign material inspection for clear film



Example configuration

Provides diffused light with a high degree of uniformity by mounting LEDs with high density.



We have various materials.

3D CAD

Product Fliers

Data Sheets

http://www.ccs-grp.com/dl/

LDR2

LDR2-LA

LDR-LA1 SQR SQR-TP Diphing HLDR-IP

HPR Lighting

LFR

FPR

FPQ2

LDL2 Lighting TDTB

HLDL2

TH

LFL

HPD2

HPD

LDM2 LAV

PDM

LFX2 LEV3 LFV2 Collimated Lighting MSM NAW

LNSP-UV-FN

Ultraviolet Lighting UV2 UV

Infrared Lighting

HLV2

١٧

LSP

HFS/HFR HLV2-NR HLV2-3M-RGB-3W

PFB2 PFBR LNSP

CU-LNSP LNSP-EN LNSP-FN

HLND

LNV/HLDN LNIS-FN

LN/LN-HK LNSD

Diffused LKR

Line Light Custom Product Page ► P.160

Control Unit Product Page ▶ P.185

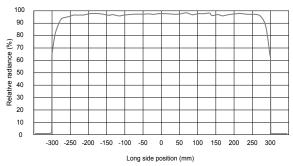
Technical Guide (Line Sensor) ► P.235

Regulations, Etc. ▶ P.241

Data (Representative example) *The graph included is for reference only and does not guarantee the quality of this product.

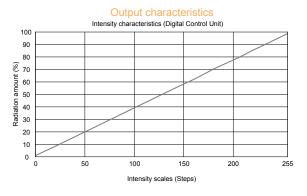
LND2-600SW





^{*} The graph included is for reference only and does not guarantee the quality of this product.

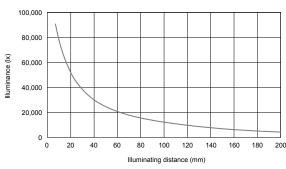
LND2-300SW



Actual measurement values using the Digital Control Unit PD3 series. (This does not guarantee product quality.)

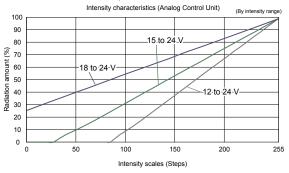
LND2-300SW

Change in illuminance



* Actual measurement values at 100% intensity in each illuminating distance. (This does not guarantee product quality.)

LND2-900SW



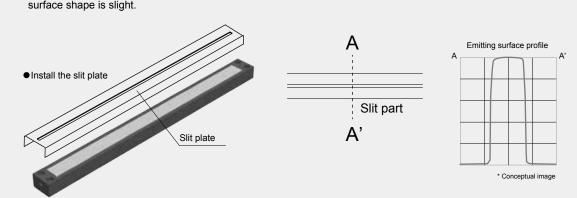
- * Actual measurement values using the Analog Control Unit PSB3-30024. (This does not guarantee product quality.)
- Measured in each voltage range because the Analog Control Unit PSB3-30024 has a switching function for the lower limit of output voltage.

Custom order

Please contact your CCS sales representative.

E.g.: Slit specifications (Install a slit plate on the emitting surface)

Result: Uses the edge of the emitting surface, effective for inspections for dents and fish eyes where the change in the surface shape is slight.



Sharpens the line between light and dark for the Light Unit, allowing for inspection using the emitting surface's edge.

Macro Lens

HPR2

LDR2

LFV2 MSU

PFBR

LNSD HLND

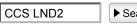
LT LNV/HLDN LNIS LNIS-FN

Telecentric Lens Macro Lens

LND2 series



Refer to our website for product details.



Control Unit Selection Guide ▶ P.181

Use a search engine.



your smartphone

Control Unit Page ▶ P.185

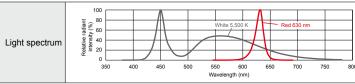
Lineup

Model name	LED color	Power consumption	Peak wavelength/ correlated color temperature	Connector	Recommended Control Units	Weight
LND2-300SW		24 V / 18 W	5,500 K	SM Connector	PD3/PSB PTU2	200 g
LND2-600SW	White	24 V / 35 W			PD3	360 g
LND2-900SW	vviiite	24 V / 53 W	5,500 K	EL Connector	PD3	505 g
LND2-1200SW		24 V / 70 W			PSB3-30024	670 g
LND2-300RD	Red	24 V / 23 W	630 nm	SM Connector	PD3/PSB PTU2	200 g
LND2-600RD		24 V / 46 W			PD3	360 g
LND2-900RD	Reu	24 V / 69 W		EL Connector	PD3	505 g
LND2-1200RD		24 V / 91 W			PSB3-30024	670 g

Extension Cables ▶ P.222 Custom products with a PWM frequency of 500 kHz are available for Digital Control Unit PD3 series. Please contact your CCS sales representative for details

The emitting surface is available in sizes of 100 mm units. For details about other sizes, inquire with your CCS sales representative. In addition, we accept custom orders, such as changes to the LED color (blue/green/IR/UV, etc.) and size changes. Inquire at your CCS sales representative for details.

LED properties



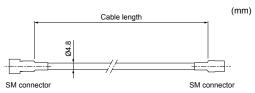
Be sure to read the "Instruction Guide" included with the product before use and observe cautionary information. The data included is for reference only and does not guarantee the quality of this product.

Extension cables

SM connector type

Model name	Cable length		
FCB-1	1 m		
FCB-2	2 m		
FCB-3	3 m		
FCB-5	5 m		

Extension Cables Page P.222

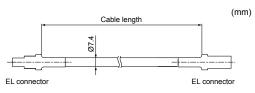


Cable permitted bending radius: 28.8 mm

EL connector type

31	71			
Model name	Cable length			
FCB-1-EL2	1 m			
FCB-2-EL2	2 m			
FCB-3-EL2	3 m			
FCB-5-EL2	5 m			
FCB-10-EL2	10 m			
FCB-15-EL2	15 m			

Extension Cables Page P.222



Cable permitted bending radius: 55.5 mm

LDR2 LDR2-LA LDR-LA1 SQR SQR-TP

DIADING PROPERTY OF THE PROPER

HPR Lighting LFR Diffused LKR

FPR

FPQ2 LDL2

HLDL2

TH LFL HPD2 HPD LDM2

LAV

PDM

LFX2 LFV3 LFV2

Collimated Lighting MED

Ultraviolet Lighting ASM ASM TANGET

Infrared Lighting HLV2 LV LSP HFS/HFR HLV2-NR HLV2-3M-RGB-3W PFB2 PFBR LNSP COnvergent Lighting L

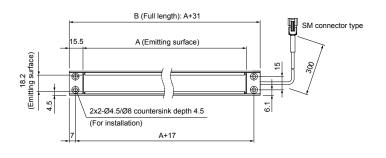
LNSP-UV-FN

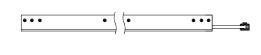
FDLB Hing A

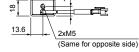
Dimensions (mm)

Emitting surface: 301 mm, 603 mm





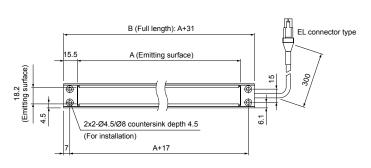


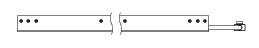


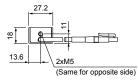
* Use an SM connector type cable for the extension cable.

Emitting surface: 903 mm, 1,203 mm

Model name LND2-900 LND2-1200







* Use an EL connector type cable for the extension cable.

	Model name	A (Emitting surface)	B (Full length)	Model name		A (Emitting surface)	B (Full length)
White	LND2-300SW	301	332	Red	LND2-300RD	301	332
	LND2-600SW	603	634		LND2-600RD	603	634
	LND2-900SW	903	934		LND2-900RD	903	934
	LND2-1200SW	1,203	1,234		LND2-1200RD	1,203	1,234

You can change the connectors of the Light Unit cable. Choose between M12 connectors and flying leads. Refer to P.125 for details.