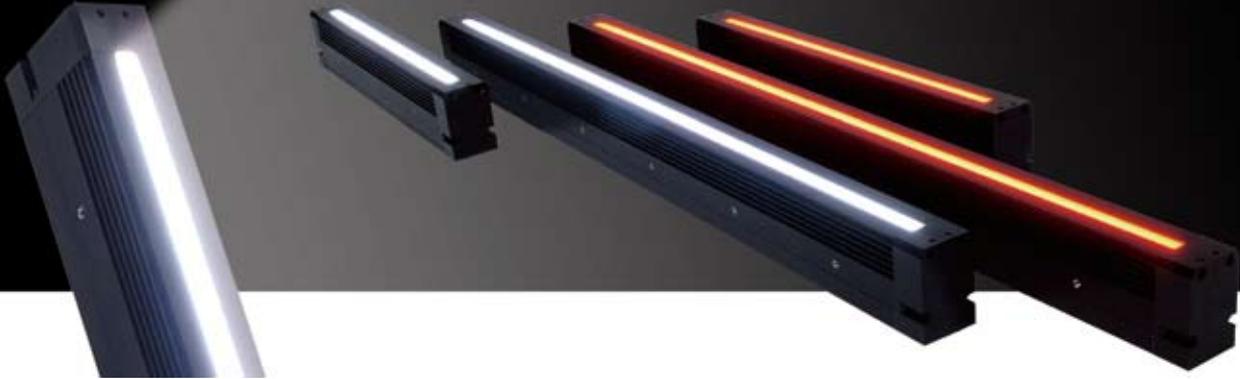




# Line Lights HLND Series

Next-generation light construction satisfies the requirements of line scan applications



## Light-emitting surfaces are available in lengths from 100 to 2,700 mm

Use of high intensity LEDs has achieved substantial increase in the light intensity comparable to conventional line lights. Heat dissipation efficiency has been enhanced by the application of the CCS's unique heat transfer expertise, thus making the prolonged use at high intensities possible. Since the HLND Series is manufactured by joining printed circuit boards with chip-mounted LEDs, customers are able to specify an emitting surface length best suited for the application. Solid aluminum extrusion is used for the enclosure to ensure adequate strength.



Length can be specified in increments of 100 mm .....

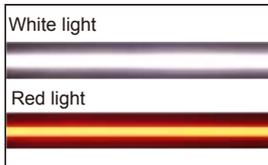


..... Up to a maximum of **2,700 mm** .....

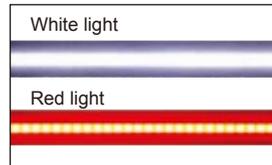
The HLND Series offers line lengths best suited to illumination applications of customers. Since the HLND Series is manufactured by joining LED-mounted printed circuit boards, customers are able to specify an emitting surface length up to maximum of 2,700 mm in the increments of 100 mm. Furthermore, solid aluminum extrusion is used for the enclosure to ensure adequate strength.

## Unprecedented luminosity for a wide variety of applications

T Type (Transmitted Illumination)



R Type (Reflected Illumination)



Two types of products are available by using diffusers with different transmittance.

T-type provides excellent uniformity which is suitable for using as a backlight and R-type achieves high intensity.

## High quality design for reliability

New heat-dissipating structure



New metal industrial connector



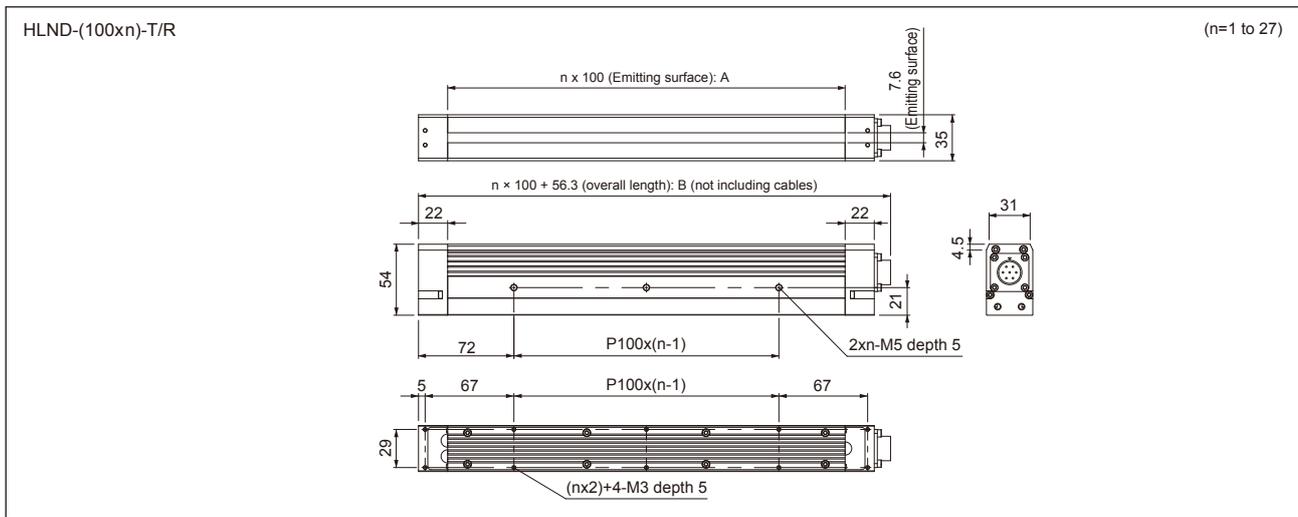
Always striving to maximize performance, quality, and value, CCS has incorporated its most advanced expertise in constructing LED lighting products for machine vision in the HLND series.

# Specifications

Direct Number : You can easily access the web page providing information on any desired product by simply entering the 7-digit direct number in the space provided. (Refer to the back cover of this brochure.)

Model	HLND- $\triangle\triangle\triangle$ SW2- $\square$		HLND- $\triangle\triangle\triangle$ RD- $\square$	
$\triangle\triangle\triangle$	" $\triangle\triangle\triangle$ " is the length of emitting surface. Available in 100 mm increments up to 2,700 mm.			
LED color	SW2(White)		RD(Red)	
$\square$	T	R	T	R
Type	Transmissive	Reflective	Transmissive	Reflective
Peak wavelength / Color temp.	6,500K		624nm	
Full Width at Half Maximum of peak emission wavelength	-		15nm	
Connector	Metal connector (7 pins, male)			
Polarity and signal	1,2,3:(+) 4,5,6:(-) 7:NC			
Cooling method	Natural air cooling (Special heat-dissipating structure)			
Housing material	Aluminum			
Operating environment	Temperature: 0 to 40°C, Relative humidity: 20 to 85%RH (non-condensing)			
Storage environment	Temperature: -20 to 60°C, Relative humidity: 20 to 85%RH (non-condensing)			
Compatible Control Unit	PSB3-30024		Refer to page 79 for details.	

## Dimension Diagrams (Unit: mm)



## Specifications/Dimensions by Total Illumination Length

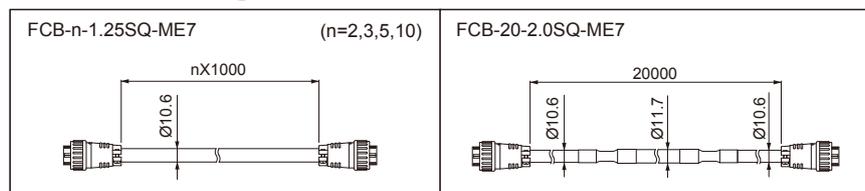
Light emitting surface(mm)	Model	LED color	Type	Power consumption(W)		Weight(g)	Dimensions (See Dimension Diagrams.)		
				SW2(White)	RD(Red)		n	A(mm)	B(mm)
100	HLND-100	SW2(White) / RD(Red)	T Type (Transmitted Illumination)	10	4.8	520	1	100	156.3
200	HLND-200			20	9.6	840	2	200	256.3
300	HLND-300			30	14	1,160	3	300	356.3
600	HLND-600			60	29	2,120	6	600	656.3
900	HLND-900			91	43	3,080	9	900	956.3
1,200	HLND-1200		107	58	4,040	12	1,200	1,256.3	
1,500	HLND-1500		133	72	5,000	15	1,500	1,556.3	
1,800	HLND-1800		160	86	5,960	18	1,800	1,856.3	
2,100	HLND-2100		186	101	6,920	21	2,100	2,156.3	
2,700	HLND-2700		240	130	8,840	27	2,700	2,756.3	

\* Please contact your CCS sales representative for product specifications different from those listed above.

## HLND extension cable

- FCB-2-1.25SQ-ME7 ..... 2m cable
- FCB-3-1.25SQ-ME7 ..... 3m cable
- FCB-5-1.25SQ-ME7 ..... 5m cable
- FCB-10-1.25SQ-ME7 ..... 10m cable
- FCB-20-2.0SQ-ME7 ..... 20m cable

## Dimension Diagrams of HLND extension cable (Unit: mm)



\* The Light Unit must be connected to a PSB3-30024 Control Unit.

Refer to page 79 for Compatible Control Unit.