

# LTRNHP210W20 | DATASHEET

# High power LED ring illuminator, oblique type, inner diameter 116.5mm, white, 6200 K

#### **KEY ADVANTAGES**

High power working both in continuous and strobe mode.

Brighter than LTRNOB series also in continuous mode.

Mechanically fitting Opto Engineering optics Each lens integrates specific mechanical interfaces.

Specific illumination geometry Illumination path matches Opto Engineering lenses viewing angle and numerical aperture.

Integrated thermal sensor.

**LTRNOBHP series** are the high power version of LTRNOB series LED ring illuminators and are specifically designed to match Opto Engineering® 360° view Optics.

# SPECIFICATIONS

## Lighting specifications

X

Illumination area outer diameter	(mm)	182.0
Illumination area inner diameter	(mm)	117.5
Emission angle	(°)	20
Optimal working distance	(mm)	50-100
Number of LED		84
Light color, peak wavelength		white, 6200 K
Spectral FWHM	(nm)	-
Illuminance1	(klux)	n.a.
Diffuser		yes

### **Electrical specifications**

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Supply Voltage <sup>2</sup>	(V)	24
Current <sup>3</sup>	(mA)	2090
Power consumption	(W)	50.0
Max pulse current <sup>4</sup>	(A)	18.0
Peak power consumtpion	(W)	391
Max pulse duration	(ms)	1
Max duty Cycle	(%)	1.5
Estimated MTBF	(hours)	> 20000
Connector		WEIPU SP2110/P5
Included cable		CBLT010
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<sup>1</sup> Measured at minimum working distance

<mark>²</mark> ±2%.

<sup>3</sup> With constant driving voltage

<sup>4</sup> At 25°C. At max pulse width (1ms), max pulse frequency = 15 Hz

## **Mechanical specifications**

Outer diameter	(mm)	210.0
Inner diameter	(mm)	116.5
Height	(mm)	42.0
Mass	(g)	1200
Clamping system	8x	M4 threaded holes

#### Environment

Operating temperature	(°C)	0-40
Storage temperature	(°C)	-20-+60
Operating relative humidity	(%)	20-85, non condensing
Installation		Indoor use only

#### Eye safety

Risk group (CEI EN 62471:2010)

Exempt

## **COMPATIBLE PRODUCTS**

#### Full list of compatible products available here.



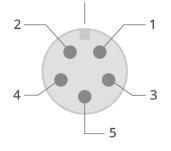
A wide selection of innovative machine vision components.

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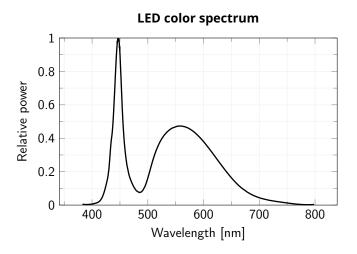
# **CONNECTOR PINOUT**

Reference mark



Pin	Function	Description	Cable Color
1	LDC+	LED+ Continuous mode	Brown + White
2	NTC+	Thermal sensor input. Positive terminal	Pink
3	LD-	LED-	Green + Yellow
4	LDS+	LED+ Strobe mode	Red + Blue
5	NTC-	Thermal sensor input. Negative terminal	Grey

Devide side



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