

LTRNHP165R45 | DATASHEET

High power LED ring illuminator, oblique type, inner diameter 132.5mm, red, 625 nm





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

Illumination area outer diameter	(mm)	162.0
Illumination area inner diameter	(mm)	133.5
Emission angle	(°)	45
Optimal working distance	(mm)	30-50
Number of LED		63
Light color, peak wavelength		red, 625 nm
Spectral FWHM	(nm)	20
Illuminance1	(klux)	n.a.
Diffuser		yes

Electrical specifications

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Supply Voltage ²	(V)	24
Current ³	(mA)	1670
Power consumption	(W)	40.0
Max pulse current ⁴	(A)	7.0
Peak power consumtpion	(W)	169
Max pulse duration	(ms)	1
Max duty Cycle	(%)	1.5
Estimated MTBF	(hours)	> 20000
Connector		WEIPU SP2110/P5

¹ Measured at minimum working distance

 2 ±2%.

Included cable

³ With constant driving voltage

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

Mechanical specifications

Outer diameter	(mm)	190.0
Inner diameter	(mm)	132.5
Height	(mm)	42.0
Mass	(g)	900
Clamping system	8:	x 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 (CELEN 62471:2010)	Exempt

COMPATIBLE PRODUCTS

Full list of compatible products available here.

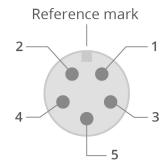


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CONNECTOR PINOUT



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

