LTRN050G45 | DATASHEET

OPTO ENGINEERING

Ring LED illuminator, inner diameter 15.2mm, oblique type, green, 525 nm

KEY ADVANTAGES

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.

High performance to price ratio
Cost-effective, without quality compromises.

LTRNOB series are LED ring illuminators specifically designed for a wide range of Opto Engineering products. Especially the oblique type models perfectly fit Opto Engineering® 360° view optics.

SPECIFICATIONS

Lighting specifications

Illumination area outer diameter	(mm)	49
Illumination area inner diameter	(mm)	19
Optimal working distance (Min-Max)	(mm)	20-80
Number of LED rows		2
Emission angle	(°)	45
Light color, peak wavelength		green, 525 nm
Illuminance at min WD[1]	(lux)	15700
Illuminance at max WD[1]	(lux)	2470

Electrical specifications

Supply voltage[2]	(V)	24
Current	(mA)	70
Power consumption	(W)	1.7
Estimated MTBF[3]	(hours)	> 20000
Max pulse voltage[4]	(V)	24-48 (36 recomended)
Max pulse current[5]	(mA)	210
Max duty Cycle	(%)	10
Max pulse duration	(ms)	10
Connector[6]		Flying leads
Cable length	(mm)	1000

Mechanical specifications

Outer diameter	(mm)	53.5
Inner diameter	(mm)	15.2
Height	(mm)	22.0
Mass	(g)	45

Environment

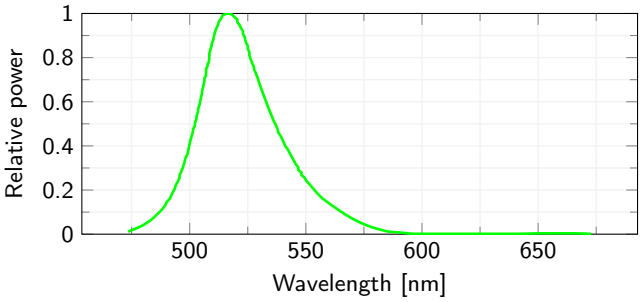
Operating temperature	(°C)	0-45
Operating humidity	(%)	20-85, non condensing

Eye safety

Risk group (CEI EN 62471:2010)	Exempt

[1] ±15%.
[2] Tolerance ±2%.
[3] At 25°C.
[4] Constant voltage power supply.
[5] Constant current power supply.
[6] Red Cable is V+, white cable is V-.

LED color spectrum



COMPATIBLE PRODUCTS

Full list of compatible products available *here*.

A wide selection of innovative machine vision components.