

# LTRN023GR | DATASHEET

# Ring LED illuminator, inner diameter 28.0mm, straight 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 straight type models perfectly fit Opto Engineering® telecentric lenses.

#### **SPECIFICATIONS**

#### **Lighting specifications**

Illumination area outer diameter	(mm)	90.0
Illumination area inner diameter	(mm)	40.0
Optimal working distance (min-max)	(mm)	55-85
Number of LED rows		1
Emission angle	(°)	0
Light color, peak wavelength		green, 525 nm
Illuminance at min WD <sup>1</sup>	(lux)	6720
Illuminance at max WD <sup>1</sup>	(lux)	3960

# **Electrical specifications**

Supply voltage <sup>2</sup>	(V)	24
Current	(mA)	220
Power consumption	(W)	5.3
Estimated MTBF <sup>3</sup>	(hours)	> 20000
Max pulse voltage <sup>4</sup>	(V)	24-48 (36 recomended)
Max pulse current <sup>5</sup>	(mA)	660
Max duty cycle	(%)	10
Max pulse duration	(ms)	10
Connector <sup>6</sup>		Flying leads
Cable length	(mm)	1000

# **Mechanical specifications**

Outer diameter	(mm)	104.0	
Inner diameter	(mm)	28.0	
Height	(mm)	39.6	
Mass	(g)	283	

### **Environment**

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

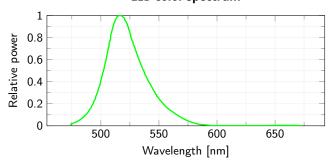
# **Eye safety**

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- Risk group (CEI EN 62471:2010)  $^{1}$   $\pm$ 15%.
- <sup>2</sup> Tolerance  $\pm 2\%$ .
- <sup>3</sup> At 25°C.
- Constant voltage power supply.
- <sup>5</sup> Constant current power supply.
- <sup>6</sup> Red Cable is V+, white cable is V-.

# **LED** color spectrum

Exempt



#### **COMPATIBLE PRODUCTS**

### Full list of compatible products available here.

	OPTICS	LIGHTING	CAMERAS	SOFTWARE	ACCESSORIES
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A wide selection of innovative machine vision components.					

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