

LTRN024RD | DATASHEET

Ring LED illuminator, inner diameter 44.0mm, straight type, red, 630 nm



KEY ADVANTAGES

Mechanically fitting Opto Engineering® optics

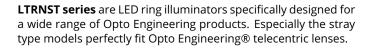
Each lens integrates specific mechanical interfaces.

Specific illumination geometry

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

High performance to price ratio

Cost-effective, without quality compromises.











SPECIFICATIONS

Lighting specifications

Illumination area outer diameter	(mm)	107.0
Illumination area inner diameter	(mm)	57.0
Optimal working distance (min-max)	(mm)	85-150
Number of LED rows		1
Emission angle	(°)	0
Light color, peak wavelength		red, 630 nm
Illuminance at min WD ¹	(lux)	5450
Illuminance at max WD ¹	(lux)	2450

Electrical specifications

Supply voltage ²	(V)	24
Current	(mA)	300
Power consumption	(W)	7.2
Estimated MTBF ³	(hours)	> 20000
Max pulse voltage ⁴	(V)	24-48 (36 recomended)
Max pulse current ⁵	(mA)	900
Max duty cycle	(%)	10
Max pulse duration	(ms)	10
Connector ⁶		Flying leads
Cable length	(mm)	1000

Mechanical specifications

Outer diameter	(mm)	120.6
Inner diameter	(mm)	44.0
Height	(mm)	39.6
Mass	(g)	371

Environment

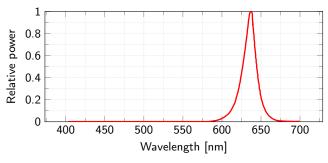
Operating temperature	(°C)	0-35
Operating humidity	(%)	20-85, non condensing

Eye safety

Risk group (CEI EN 62471:2010)	Exempt

- 1 ±15%.
- $^{\mathbf{2}}$ Tolerance $\pm 2\%$.
- 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.