

LTRN048RD | DATASHEET

Ring LED illuminator, inner diameter 75.0mm, 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.

LTRNST series are LED ring illuminators specifically designed for a wide range of Opto Engineering products. Especially the stray type models perfectly fit Opto Engineering® telecentric lenses.









SPECIFICATIONS

Lighting specifications

Illumination area outer diameter	(mm)	143.0
Illumination area inner diameter	(mm)	93.0
Optimal working distance (min-max)	(mm)	160-240
Number of LED rows		1
Emission angle	(°)	0
Light color, peak wavelength		red, 630 nm
Illuminance at min WD ¹	(lux)	2340
Illuminance at max WD ¹	(lux)	1320

Electrical specifications

Supply voltage ²	(V)	24
Current	(mA)	400
Power consumption	(W)	9.6
Estimated MTBF ³	(hours)	> 20000
Max pulse voltage ⁴	(V)	24-48 (36 recomended)
Max pulse current ⁵	(mA)	1200
Max duty cycle	(%)	10
Max pulse duration	(ms)	10
Connector ⁶		Flying leads
Cable length	(mm)	1000

Mechanical specifications

Outer diameter	(mm)	156.6
Inner diameter	(mm)	75.0
Height	(mm)	39.6
Mass	(g)	513

Environment

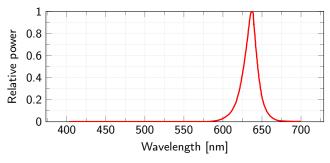
Operating temperature	(°C)	0-35
Operating humidity	(%)	20-85, non condensing

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.

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