LTRNMS210-20-8-W-M12P17 | DATASHEET OPTO ENGINEERING

Multisector Ring LED illuminator, 210.0 mm outer diameter, 8 sectors, white, 6200 K , A-type Male 17 pin M12 connector with 30 cm pigtail



KEY ADVANTAGES

Independently controlled sectors
Each of the LED sections lights up individually and in sequence, providing multi-angle directional lighting from a single compact unit.

Fully isolated channels
Each sector is electrically isolated from the others: no interference and constant current in any combination, ensuring optimal efficiency in an industrial environment.

Seamless integration with Opto Engineering product line
This series is compatible with Opto Engineering® optics and LTDV series strobe controllers.

LTRNMS series are multi-sector LED ring illuminators designed for advanced inspection tasks that a standard, single-channel ring light cannot solve.

SPECIFICATIONS

Lighting specifications

Illumination area outer diameter	(mm)	182.0
Illumination area inner diameter	(mm)	118.0
Optimal working distance (min-max)	(mm)	50-100
Emission angle	(°)	20
Light color, peak wavelength		white, 6200 K
Diffuser		yes
Number of sectors		8
Angle of single sector		45
Number of LEDs		72
Irradiance [1]	(W/m^2)	210

Electrical specifications

Operating Mode		Constant current driving
Max power consumption	(W)	336.0
Max continuos current [2,3]	(mA)	200
Max pulse current [2,3]	(mA)	1500
Max duty cycle	(%)	2
Max pulse duration	(ms)	10
Connector[4]		A-type Male 17 pin M12 connector with 30 cm pigtail

Mechanical specifications

Outer diameter	(mm)	210.0
Inner diameter	(mm)	116.5
Height	(mm)	31.0
Mass	(g)	1200

Environment

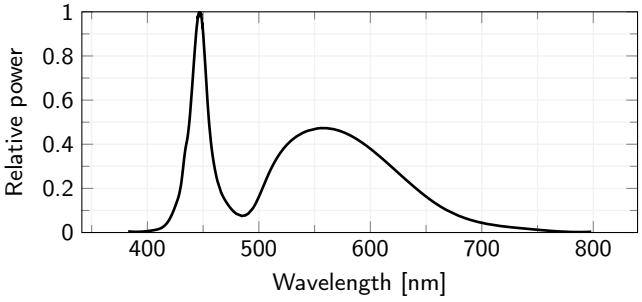
Operating temperature	(°C)	0-40
Operating humidity	(%)	20-85, non condensing
Storage temperature	(°C)	0-40
Estimated MTBF[3]	(hours)	> 20000
Installation	(%)	Indoor use only

Eye safety

Risk group (CEI EN 62471:2010)	Risk group 1

[1] ±15%.See datasheet for measurments distance.
[2] Per sector.
[3] See datasheet for I/V characteristic curve.
[4] Cables not included.

LED color spectrum



COMPATIBLE PRODUCTS

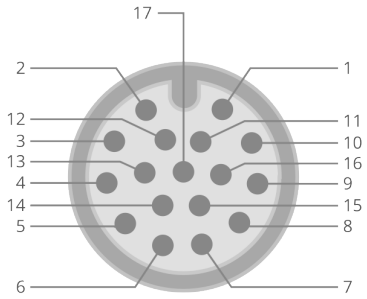
Full list of compatible products available *here*.



A wide selection of innovative machine vision components.

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CONNECTOR PINOUT



Device side

Pin	Wire color	Function
1	Brown	Power supply sector 1, positive terminal
2	Blue	Power supply sector 1, negative terminal
3	White	Power supply sector 2, positive terminal
4	Green	Power supply sector 2, negative terminal
5	Pink	Power supply sector 3, positive terminal
6	Yellow	Power supply sector 3, negative terminal
7	Black	Power supply sector 4, positive terminal
8	Grey	Power supply sector 4, negative terminal
9	Red	Power supply sector 5, positive terminal
10	Violet	Power supply sector 5, negative terminal
11	Grey/Pink	Power supply sector 6, positive terminal
12	Red/Blue	Power supply sector 6, negative terminal
13	White/Green	Power supply sector 7, positive terminal
14	Brown/Green	Power supply sector 7, negative terminal
15	White/Yellow	Power supply sector 8, positive terminal
16	Yellow/Brown	Power supply sector 8, negative terminal
17	White/Grey	Not connected

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