



Sensing LED ring lighting is now available!

- Brightness feedback controlling by "FALUX sensing"

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- 2 way lighting, convergent & wide, by attachment lens



Sensing LED ring lighting

Phone 800-280-6933 www.optex-ramco.com



Sensing LED ring lighting OPR series

- "FALUX sensing" enables monitoring of LED temperature / brightness and feedback controlling
- You can choose convergent mode and wide mode by attachement lens.
- 2 times brighter than conventional LED lighting and brightness distribution curve is improved.

Patent pending



Sensing and feedback controlling technology "FALUX sensing" * except OPR-32-10W

Multiple photo diodes detect LED brightness regardless its flashing pulse width. It provides brightness and temperature data through power line.

LED lighting controller OPPF series can control its LED brightness utilizing this data.

This technology enables long life around 40k hours.



Comparison With/Without feedback controlling





FALUX" keeps brightness stable tracking temperature.

Patent pending

Constant current regurator adjusts brightness of each LED and temperature tracking circuitry keeps brightness stable especially at the start up moment.



With FALUX keeps brightness of each LED even the temperature changes.



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2 Way lighting, convergent & wide, by attachment lens

Original lens has optimized light distribution for machine vision. It leads light to photo diodes for accurate brightness sensing. Attachment lens enables 2 way lighting, convergent & wide mode.



Light Working Distance (LWD) and Field Of View (FOV)

You can choose convergent mode (with attachment lens) or wide mode (without attachment lens).

- Convergent mode: The lens changes the light angle 20 degree inside to get high brightness converged.
- Wide mode: You can get the wider lighting area the longer distance.



Brightness distribution comparison

High efficiency LED and optimized design of lens and heat sink enable 2 times brightness than conventional one. You can get wider area with even brightness by convergent mode that helps stable inspection. New design helps decreasing number of LEDs drastically and improving evenness of brightness even for wide mode.



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Dimensions



[mm]

Line up

Part number	*	FALQX	Attachment Lens	Power dissipation	Weight
OPR-32-10W	N.A.	Yes	N.A.	3.1W	35g
OPR-S55-28W	Yes	Yes	Yes	5.1W	60g
OPR-S70-43W	Yes	Yes	Yes	7.2W	75g
OPR-S85-58W	Yes	Yes	Yes	9.2W	90g

* "FALUX sensing" is available with LED controller "OPPF series"

Specifications

Light color	White	Shock resistance	10G X, Y, Z 3 times	
Color temp.	6,000K	LED life	7,000 hours when brightness drops $10\%/100\%$ duty, 30 deg.C (typical data)	
Power supply	DC12V	Matarial	Housing: ADC12 and PC, Lens: PC and PMMA	
Operating temp./humid.	0~40°C / 35~85%/RH	waterial	Heat transition sheet: Silicon rubber	
Storage temp./humid.	-20~70℃ / 35~95%/RH	Conformity	CE, RoHS	
Vibration resistance	10~55Hz 1.5mm X, Y, Z 2hours	Accessory	Diffuse plate (60%), Diffuse plate (80%), Transparent cover, Polarizing plate	





600-8815 Kyoto, Shimogyo, Chudoji Awata 91, Japan TEL. +81-(0)75-325-2920 FAX. +81-(0)75-325-2921 http://www.optex-fa.com