



product introduction

The KEY-R80 Ring light features six high current LEDs. Intense but diffuse light pattern at any given working distance. Able to connect directly to the Keyence controller. Features an industry standard 5-pin M12 connector. Heat is dissipated through the aluminum back plate which allows the KEY-R80 Series to be run at a higher current allowing for greater intensity. Color availability ranges from UV to IR.



product features



- Direct-Connect to Keyence Controller
- Standard wide lenses included – narrow available
- Available wavelength range from 365nm to 940nm
- Four, 1mm² Die High Current LEDs



product number key

KEY-R80 – XXX – X* —» Part Number Key

Product Family:
Ring Light
Keyence Series

Color:
365, 395, 470, 505,
530, 625, 850, 940
& WHI (White)

Lenses:
N - Narrow

* Lights come standard with Wide lenses

CE and RoHS Compliant



mounting & accessories

Standard industrial T-slots on each side accept T-nuts



Front mounting of Lens to Ring Light



Rear mounting of Lens to Ring Light





warnings

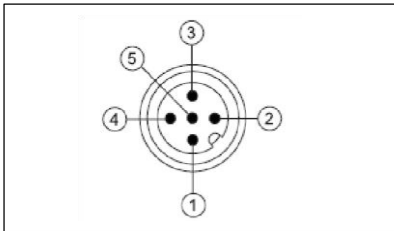


Attention

A total of four LEDs in the KEY-R80. One string of four LEDs.
No LED protection – Do not apply an unregulated current source to LEDs.



wiring configuration



Function	Wire Color
1 – N/C	N/C
2 – N/C	N/C
3 – LED (-) Cathode	BLUE
4 – LED (+) Anode	BLACK
5 – N/C	N/C



risk group

According to IEC 62471:2006. Full documentation upon request.

Notice

Exempt Group: No photobiological hazard to eyes or skin even for continuous, unrestricted use.
Applicable for wavelengths: 625, 850, and 940.

Caution

Risk Group 1: Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to eye. Safe for most applications except prolonged exposures.
Applicable for wavelengths: 395, 470, 505, 530, and WHI.

Notice

Risk Group 1: UV emitted from this product. Minimize exposure to eyes and skin. Use appropriate shielding. Safe for most applications except prolonged exposures.
Applicable for wavelengths: 395

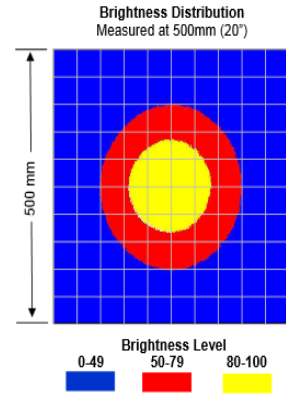
Caution

Risk Group 2: UV emitted from this product. Eye or skin irritation may result from exposure. Use appropriate shielding. Does not pose optical hazard if aversion responses limit exposure.
Applicable for wavelengths: 365



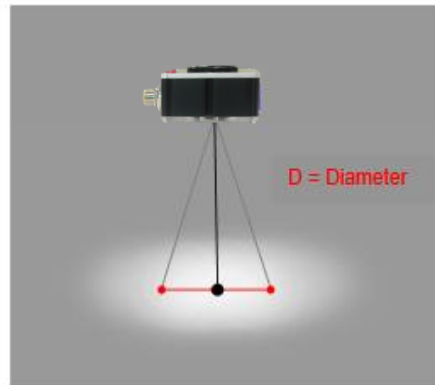
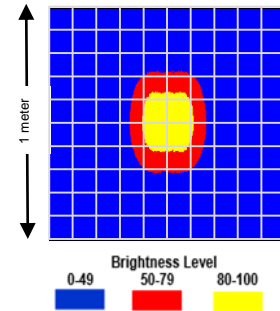
KEY-R80-XXX

Working Distance mm (inches)	Pattern (80%-100% measured intensity) mm (Inches)
.25m (10")	90mm(3.5") D
.5m (20")	180mm(7") D
.75m (30")	270mm(10.5") D
1m (40")	360mm(14") D
Typical output performance	
Distance = .5 meter	Illumination (Lux)
	3600
<i>Illumination measurement taken on White Lights – 6500K</i>	



KEY-R80-XXX-W

Working Distance mm (inches)	Pattern (80%-100% measured intensity) mm (Inches)
.25m (10")	80mm (~3.1")
.5m (20")	90mm (~3.54")
.75m (30")	135mm (~5.3")
1m (40")	190mm (~7.5")
Typical output performance	
Distance = .5 meter	Illumination (Lux)
	9200
<i>Illumination measurement taken on White Lights – 6500K</i>	





Standard Adapter Kit – Part # SU46-25.5-27

Adapter Kit includes 2 step up rings (25.5 and 27), 6 set screws and hex tool. 6 set screws – 3 for mounting step up ring to light and 3 additional for lens. Some locking thumbscrews may prevent the lens from fitting through the center of the R80, extra low-profile replacement set screws are included, allowing the protruding thumbscrews to be removed.



Step Up Adapter Kits

Step Up Adapter Kits includes step up rings, 6 set screws and hex tool. Lenses can be mounted to front or back of ring light. Filters



M46 step-up	Lens thread size	Part #
46-	25.5	SU46-25.5/27
46-	27	SU46-25.5/27
46-	30.5	SU46-30.5
46-	34	SU46-34
46-	37	SU46-37
46-	37.5	SU46-37.5
46-	39	SU46-39
46-	40.5	SU46-40.5
46-	43	SU46-43

Step Down Adapter Rings

Step Down rings mount large lenses to light. Step Down rings mount lenses to back of ring light. Filters can also be installed.



M46 step-down	Lens thread size	Part #
46-	49	SD46-49
46-	52	SD46-52
46-	55	SD46-55
46-	58	SD46-58
46-	62	SD46-62
46-	67	SD46-67
46-	72	SD46-72