

RING LIGHT

RL-65

Universal illumination for the majority of your applications.

HOMOGENOUS LIGHT FIELD

COMPACT DESIGN

UNIVERSAL MOUNTING



LIGHT OPERATING MODES

PERMANENT ILLUMINATION MODE

The light is designed for both the permanent and light-triggering mode. For permanent illumination bring the voltage of 10-24 V to the pin number 4 (black wire). The light is ON during the time when the 24 V EN signal is activated. Use a PCL, camera, or another binary signal source. For the light intensity control, please see the text bellow.

LIGHT TRIGGERING MODE

Light triggering mode saves energy and extends the lifetime of the light. Trigger operation mode is recommended when a parallel operation of 2 or more lights might affect the quality of the acquired image. To start using a triggering mode, bring the pin number 4 (black wire) to a 10-24 V signal. The light is ON when a voltage of 24 V is present at pin number 4 then. Use a PCL, camera, or another binary signal source for triggering. For the light intensity control, please see the text bellow.

STROBE MODE

Strobe function significantly multiplies the maximum intensity of the light. The strobing function saves energy, extends the light lifetime and in many cases improves the stability of the entire inspections system. Pin number 2 (white wire) of the M8 connector is used to activate the strobe function. The maximum strobe pulse time is 10 ms, while the light idle time must be at least 10 times longer, which in this case makes 100 ms. Bringing a permanent logical 1 signal (10-24 V voltage) to a light strobe input, the light standardly operates in a 10 ms ON and 100 ms OFF cycle. The strobe operation pulse might be chosen in the time span of 1-10 ms. Please do not use a trigger mode during strobing function, do not bring a voltage to the pin number 3.

LIGHT SOURCE INTENSITY REGULATION

The light intensity might be regulated by a PWM signal at a pin number 4 (black wire), or by an external controller. The maximum PWM frequency is ≤ 40 kHz.

WAYS OF USE













ORDERING CODE

example of the ordering code



CONFIGURATION

LIGHTING INTENSITY

Model	Wavelength [nm]	LED Beam Angle [°]
RL-65W	White	80
RL-65IR	850	90
RL-65HR	660	90
RL-65R	625	80
RL-65G	528	80
RL-65B	470	80
RL-65UV	405 395 385 365	120

Distance [mm]	Intensity [lx]
100	1 100
200	3 238
300	6 530
500	21 580

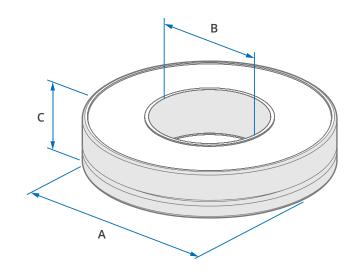
ELECTRIC PARAMETERS



DIMENSIONS & WEIGHT







TECHNICAL DATA

CONNECTOR M8-3PIN ASSIGNMENT

light connector front view



1	Brown	+	+24 V
2	White		EN
3	Blue	9	0 V
4	Black	0	EN

ENABLE - strobe mode (+24 V)

ENABLE

A permanent lighting or trigger signal (10-24 V)

B light intensity regulation: analogue signal 2.7-10 V or PWM \leq 40 kHz

ACCESSORIES

✓ Straight Cable M8-3PIN **(5 m)**

Diffusion glass of 67-68% and 48-50% transparency

OPTIONAL ACCESSORIES

- + Angular Cable M8-3PIN (5 m)
- + Diffusion glass of **36-38% transparency** + Polarizing Foil
- + Controller Smart Light CT-SL4D + Controller CM-01











COMPANY OFFICE

Smart View s.r.o. Nivy 313 Česká republika

+420 602 457 497

OUR SALES PARTNERS SLOVAKIA

MTS, spol. s r.o. Krivá 53 027 55 Krivá