

LIGHT OPERATING MODES

PERMANENT ILLUMINATION MODE

INTERNAL THREAD FOR EASY MOUNTING

INTEGRATED DIGITAL CONTROL OF STROBING PULSES

This 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 signal 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

RING

RL-65-M30.5

Direct lighting for most surfaces. The light is equipped with an integrated internal thread with for easy and quick

HOMOGENEOUS LIGHTING

mounting on most lenses.

LIGHT

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 470 ms, while the light idle time must be at least 3 times longer. Please do not use a trigger mode during strobing function, do not bring a voltage to the pin number 4.

LIGHT SOURCE INTENSITY REGULATION

The light intensity might be regulated by an analogue voltage, PWM signal or an external controller. In case of using an analogue signal, the light intensity might be regulated in a linear way at a pin number 4 by the voltage span of 2.7 -10 V. Bringing a voltage of 10-24 V to the pin number 4, the light works at its maximum intensity. The maximum PWM frequency is ≤ 40 kHz.

WAYS OF USE













ORDERING CODE

example of the ordering code



CONFIGURATION

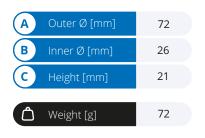
ILLUMINATION INTENSITY

Model	Wavelength [nm]	LED Beam Angle [°]	Thread Ø [mm]	Distance [mm]	Value [lx]
RL-65W	White	80	30.5	100	1 100
RL-65IR	850	90	30.5	200	3 238
RL-65HR	660	90	30.5	300	6 530
RL-65R	625	80	30.5	500	21 580
RL-65G	528	80	30.5		
RL-65B	470	80	30.5		
RL-65UV	405 395 385 365	120	30.5		

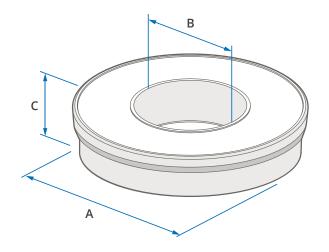
ELECTRIC PARAMETERS



DIMENSIONS & WEIGHT







TECHNICAL DATA

CONNECTOR M8-4PIN ASSIGNMENT

light connector front view



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

ENABLE - strobe mode (+24 V)

ENABLE

permanent lighting or trigger signal (10-24 V)

intensity regulation: analogue signal 2,7-10 V or PWM ≤ 40 kHz

ACCESSORIES

✓ Straight Cable M8-4PIN **(5 m)**

Diffusion Glass 67-68% & 48-50% transparency

OPTIONAL ACCESSORIES

- + Angular Cable M8-4PIN (5 m)
- + Diffusion Glass **36-38% transparency** + Polarizing Filter
- + Controller Smart Light CT-SL4D + Controller CM-01
- + Reduced Ring M30.5-M27 + Reduced Ring M30.5-25.5



YOUR PARTNER







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