

RL-50-M30.5

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

COMPACT DESIGN

HOMOGENEOUS LIGHTING

INTERNAL THREAD FOR EASY MOUNTING

INTERNAL LIGHT INTENSITY REGULATION



SmartView

LIGHT OPERATING MODES

PERMANENT ILLUMINATION MODE

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

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 can be regulated with an integrated trimmer or an external controller.

WAYS OF USE













ORDERING CODE

example of the ordering code



CONFIGURATION

Mo	odel	Wavelength [nm]	Thread Ø [mm]
RL	-50W	White	30.5
RL	-50HIR	940	30.5
RL	-50IR	850	30.5
RL	-50FR	730	30.5
RL	-50HR	660	30.5
RL	-50SR	630	30.5
RL	-50R	625	30.5
RL	-50G	528	30.5
RL	-50DB	470	30.5
RL	-50B	450	30.5
RL	-50UV	405 385 365	30.5

ELECTRIC PARAMETERS

	Model	RL-50W	RL-50HIR	RL-50IR	RL-50FR	RL-50HR	RL-50SR	RL-50R	
Un	Voltage Span	12-28 V	12-28 V	12-28 V	12-28 V	12-28 V	12-28 V	12-28 V	′
\mathbf{U}_{jm}	Nominal Voltage	24 V	24 V	24 V	24 V	24 V	24 V	24 V	
l _{jm}	Nominal Current	200 mA	200 mA	200 mA	200 mA	200 mA	200 mA	210 mA	
P	Input	4.8 W	4.8 W	4.8 W	4.8 W	4.8 W	4.8 W	4.8 W	
	Model	RL-50IR	RL-50HR	RL-50R	● RL-50UV				
Un	Voltage Span	12-28 V	12-28 V	12-28 V	12-28 V	U _{trig} Trigger \	/oltage	≥ 10 - 24 V	1
\mathbf{U}_{jm}	Nominal Voltage	24 V	24 V	24 V	24 V	I _{trig} Trigger (Current	2.3 mA	1
l _{jm}	Nominal Current	200 mA	200 mA	200 mA	200 mA	U _{str} Strobe V	oltage/	3 - 24 V	2
P	Input	4.8 W	4.8 W	4.8 W	4.8 W	I _{str} Strobe C	Current	5 mA	2

¹ EN (Enable) trigger signal values, M8 connector – pin number 4

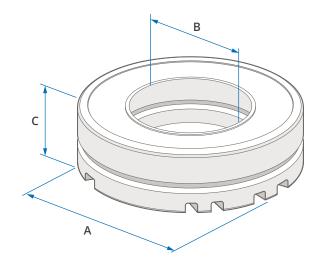
TECHNICAL DATA

² Driving voltage and current M8 connector - pin number 2

DIMENSIONS & WEIGHT







CONNECTOR M8-4PIN ASSIGNMENT

light connector front view



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

ENABLE - strobe mode (+24 V)

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

ACCESSORIES

✓ Straight Cable M8-4PIN (5 m)

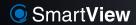
Diffusion Glass 67-68% & 48-50% transparency

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





COMPANY OFFICE

Smart View s.r.o. Nivy 313 765 02 Otrokovice Česká republika

+420 602 457 497

OUR SALES PARTNERS SLOVAKIA

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

+421 43 5819 111