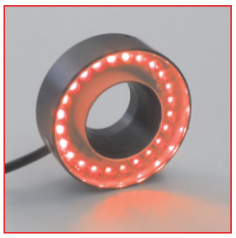
Professional lighting systems for industrial imaging

RONDO-S

Ring light

>> extremely versatile
>> compact housing
>> well-priced design
>> easy mounting directly on the lens
>> for continuous, switched and pulsed operation (depending on type)



RONDO-S red

RONDO-S

Technical specifications

Housing	Aluminium, black or natural anodised
Filterthread-connection	M27 x 0,5
Front cover (within the scope of supply)*	Acrylic clear, antireflective coating 2mm resp. clear, 3mm (for UV versions)
Total weight	approx. 50g
Operating / ambient temperature	max. 50°C recommended
IP protection class	depending on the version
Connector	M8 plug (4-pin) on pigtail 10cm **
Supply voltage***	**24VDC type or 12VDC type:** 24VDC resp. 12VDC
	SC type: For use in conjunction with a controller
Number of LEDs	24
LED lifetime	The LED lifetime of our lights is very high, but depends on many different factors such as ambient temperature, current load, and so on. Further information is available in the **Technical information LED lifetime**.

* more information and further front covers see section Accessories
** Cable not included in the scope of supply
*** more information see section Operating modes

Characteristics

	LED characteristics		typical characteristics per light			
Colour *	**Wavelength (approx.)**	**Viewing angle**	**Current demand** (24V type) ** / **constant current max.** (SC type) **[mA]**	**Pulse current max.** (SC type) *** **[mA]**	**Intensity **** [W/m²]**	
					Standard	**Tele**
red	623nm	50°	40		4	
white	6500K	45°	75		17	
IR	880nm	40°	65		5	
UV	365nm	110°	70	450	0,4	
UV	365nm	10°	70	450		

* other colours and types from UV to infrared on request
** stated current values of the 24V types should be considered approximate values
*** depending on the strobe conditions, recommended maximum values for a flash time of 1ms
**** approximately data measured in DC mode; Measuring distance 150mm

Safety note!

LED light systems can produce very intense radiation, which may possibly damage the eyes on improper use. Do not look directly into the light beam with unprotected eyes! Use eye protection!

Operating modes

24VDC type / 12VDC type
The lights are designed depending on the version for continuous operation at 24VDC or 12VDC.
The following operating modes are possible:

- DC operation at an appropriate power supply with 24VDC or 12VDC
- Switched operation with a matching power supply e.g. via PLC, opto-relay or controller (GS or SC series)
- Brightness-controlled operation via controller (GS or SC series) in conjunction with suitable power supply
- Pulsed mode via controller (GS or SC series) in conjunction with suitable power supply. The LED current can be increased in pulse mode up to a factor of 2 to 3.

SC type
For pulsed, switched or brightness-controlled operation, the lights are also available as optimized SC versions. They can be used in combination with our controllers of the GS and SC series and provide optimized and maximum current flow, especially in pulsed operation. We will assist you in selecting the right components.

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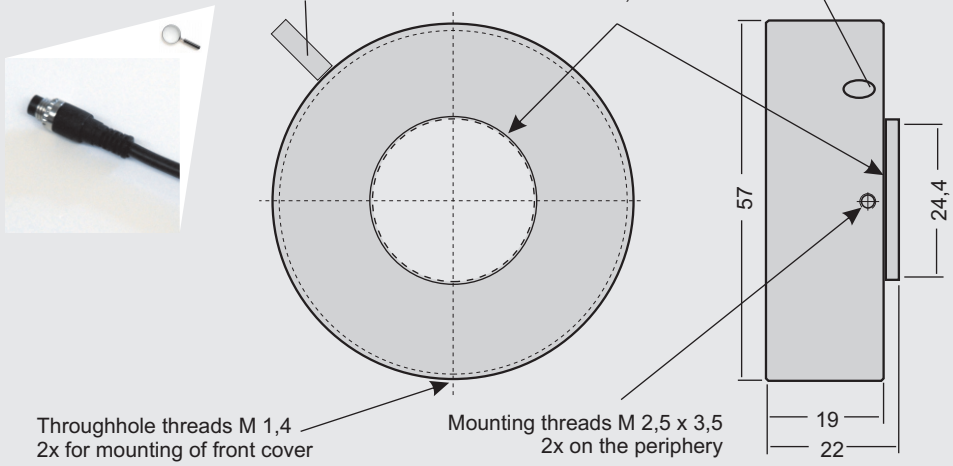
RONDO-S

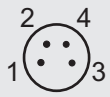
Ring light

Dimensions



PIN assignment connector

M8 plug 4-pin
(Front view on pigtail)



24VDC type

PIN	Colour	Function
1	brown	+ 24V
3	blue	-

12VDC type

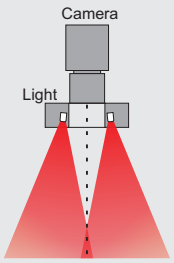
PIN	Colour	Function
2	white	+ 12V
3	blue	-

SC type

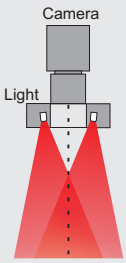
PIN	Colour	Function
4	black	+
3	blue	-

Application notes

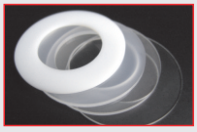
Standard version



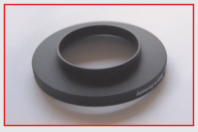
Tele version



Compared to the Standard version the light beam of the Tele version is narrowed a bit, but gets at the same time also brighter and even more homogeneous.
The Tele version is suitable also for very short working distances, as there is a lower attenuation in the optical centrum due to the characteristic and positioning.



Front covers / diffusers
Through the use of different diffuse front covers, the optical characteristics of the illumination can be changed.
More information can be found in the **Technical information Front materials**.



Adapter rings
for the coupling of the connection thread M27x0,5 of the RONDO-S to other threads.

Order numbers on request.

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