FÖGE
Industrial Equipments

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CE

Instruction Manual

Product: VL-RGF Series

Ring Light

1. Intended Use

VL-RGF Series Ring Light is designed for use in industrial areas. Purpose of the product is inspection of parts, code reading, OCR and other applications need to be illuminated directly. Light is positioned between part and camera. For maximum performance use the camera as close as possible to the light.
The system must be operated within the limits specified in technical data and used according to technical specifications as well as installation instructions. The system must be used in such a way that no person are in danger or machines and other material goods are damaged in the event of malfunction or total failure of the system. Take additional precautions for safety and damage prevention in case of safety related applications.

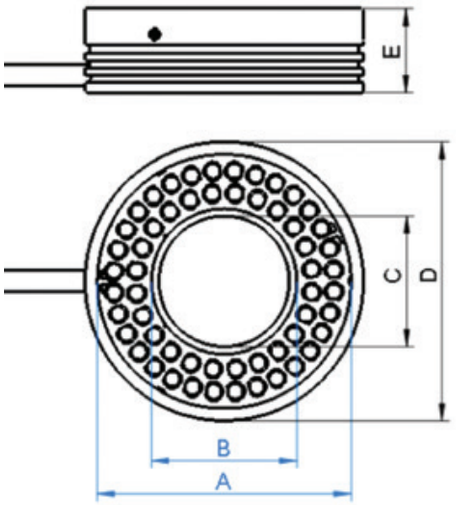
2. Technical Information

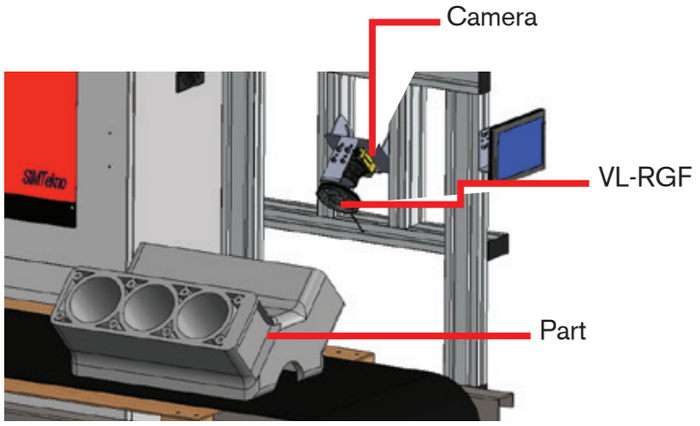
Product Types

Model	Colour	Wavelength/ Color Temperature	Power Suppy	Power Consumption	IP Rating (Option: IP67)	Connection	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
VL-RGF-51-30-R-24-C30	R	660nm	24VDC	1.7W	IP50	M8 4 pin w 300mm cable	51	30	26,5	56,5	17
VL-RGF-51-30-W-24-C30	W	9000K	24VDC	2.7W	IP50	M8 4 pin w 300mm cable	51	30	26,5	56,5	17
VL-RGF-70-38-R-24-C30	R	660nm	24VDC	3.4W	IP50	M8 4 pin w 300mm cable	70	38	34,5	75,5	17
VL-RGF-70-38-W-24-C30	W	9000K	24VDC	5 W	IP50	M8 4 pin w 300mm cable	70	38	34,5	75,5	17
VL-RGF-100-45-R-24-C30	R	660nm	24VDC	8 W	IP50	M8 4 pin w 300mm cable	100	45	41	105,5	17
VL-RGF-100-45-W-24-C30	W	9000K	24VDC	12 W	IP50	M8 4 pin w 300mm cable	100	45	41	105,5	17
Model	Colour	Wavelength/ Color Temperature	Power Suppy	Power Consumption		Connection	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
VL-RGA-51-30-R-24-C30	R	660nm	24VDC	1.7W	IP50	M8 4 pin w 300mm cable	51	30	26,5	56,5	17
VL-RGA-51-30-W-24-C30	W	9000K	24VDC	2.7W	IP50	M8 4 pin w 300mm cable	51	30	26,5	56,5	17
VL-RGA-70-38-R-24-C30	R	660nm	24VDC	3.4W	IP50	M8 4 pin w 300mm cable	70	38	34,5	75,5	17
VL-RGA-70-38-W-24-C30	W	9000K	24VDC	5W	IP50	M8 4 pin w 300mm cable	70	38	34,5	75,5	17
VL-RGA-100-45-R-24-C30	R	660nm	24VDC	8W	IP50	M8 4 pin w 300mm cable	100	45	41	105,5	17
VL-RGA-100-45-W-24-C30	W	9000K	24VDC	12W	IP50	M8 4 pin w 300mm cable	100	45	41	105,5	17

3. Dimensions / Installation

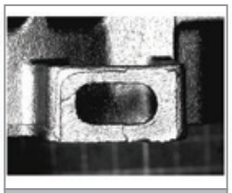
System operation assumes knowledge of the assembly instructions. The symbols used for safety is shown in section 8(Safety) of manual.





Accessories

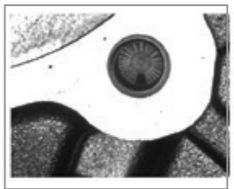
	Suitable Product	Ordering Code	Accessories Image
1	VL-RGF-51-30-W-24-C30	VL-RGF-BR-01	
2	VL-RGF-51-30-R-24-C30		
3	VL-RGF-70-38-W-24-C30	VL-RGF-BR-02	
4	VL-RGF-70-38-R-24-C30		
5	VL-RGF-100-45-W-24-C30		
6	VL-RGF-100-45-R-24-C30		



Part defect detection, positioning, part checking

OCR on metal moulded parts, aluminium part defect detection

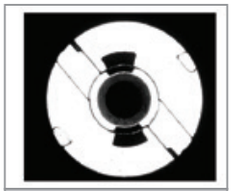
OCR, datamatrix code reading on metal parts marked with laser, inkjet markers



Hole, defect detection on machined metal parts

Missing part detection inside box, part positioning

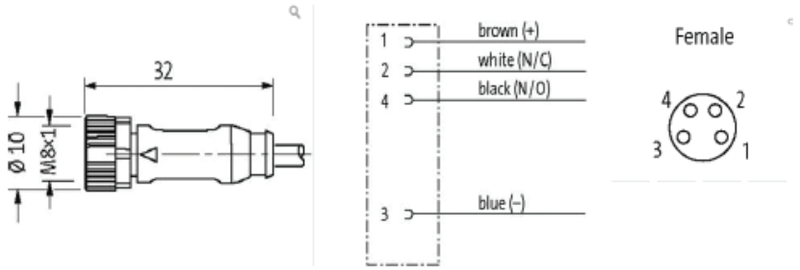
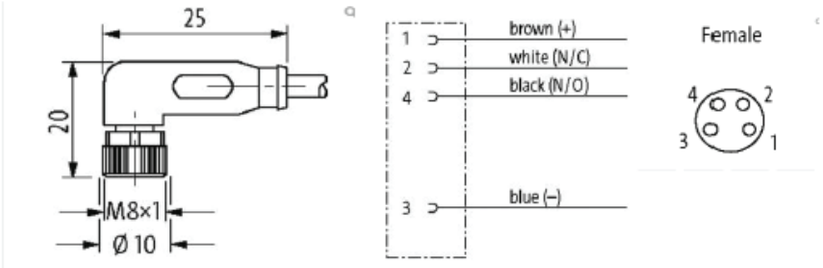
Metal part completeness check, positioning



Picking applications, angle, position detection, part identification

Concentricity measurement, part identification, part positioning

4.Electrical Connection

	Cable	Ordering Code	Drawing/Connection
1	M8 female 0° with cable PVC 4x0.25 bk UL/CSA 3m	7000-08061-6110300	
2	M8 female 0° with cable PVC 4x0.25 bk UL/CSA 5m	7000-08061-6110500	
3	M8 female 90° with cable PVC 4x0.25 bk UL/CSA 3m	7000-08101-6110300	
4	M8 female 90° with cable PVC 4x0.25 bk UL/CSA 5m	7000-08101-6110500	

5. Display/Controls

Product does not have this specification.

6. Faults

In any case do not open the product. 

If the leds not on check the connection and power supply.

If still leds are not on contact FÖGE or distributor.

7. Warnings

- Connect the power supply and the display/output device according to the safety regulations for electrical equipment.
- The supply voltage must not exceed the specified limits.
- Avoid shocks and impacts to the sensor.
- Protect the cable against damage.

Possible Results of Avoidance
Risk of injury by electric shock 
Damage to or destruction of the sensor 

8. Safety

System operation assumes knowledge of the assembly instructions. The following symbols are used in these assembly instructions:

	Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.
	Indicates a situation that may result in property damage if not avoided.
	Indicates an electrical shock if not avoided or properly follow comments.

9.Liability for Material Defects

All components of the device have been checked and tested for functionality at the production facility. However, if defects occur despite our careful quality control, FÖGE or your dealer must be notified immediately.
The liability for material defects is 12 months from delivery.
Within this period, defective parts, except for wearing parts, will be repaired or replaced free of charge, if the device is returned to FÖGE with shipping costs prepaid. Any damage that is caused by improper handling, the use of force or by repairs or modifications by third parties is not covered by the liability for material defects. Repairs are carried out exclusively by FÖGE.
Further claims can not be made. Claims arising from the purchase contract remain unaffected. In particular, FÖGE shall not be liable for any consequential, special, indirect or incidental damage. In the interest of further development, FÖGE reserves the right to make design changes without notification.

10. Decommissioning, Disposal

Remove the power supply and output cable on the sensor.
Incorrect disposal may cause harm to the environment.
Dispose of the device, its components and accessories, as well as the packaging materials in compliance with the applicable country-specific waste treatment and disposal regulations of the region of use.