

FÖGE

Industrial Equipments



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CE

Instruction Manual

Product: VL-BLC Series

Compact Backlight

1. Intended Use

VL-BLC Series Compact Backlight is designed for use in industrial areas. Purpose of the product is inspection of inner parts, contour or part missing. Product is positioned between light and camera. For maximum performance use the part as close as possible to the light.

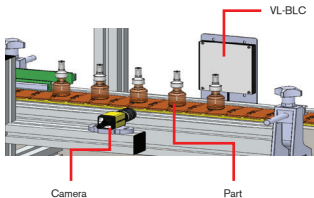
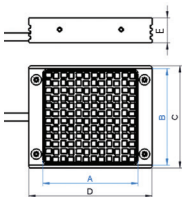
The system must be operated within the limits specified in technical data and used according to technical specifications as well as installation instructions. The system must be used in such a way that no person are in danger or machines and other material goods are damaged in the event of malfunction or total failure of the system. Take additional precautions for safety and damage prevention in case of safety related applications.

2. Technical Information

Model	Colour	Wavelength/ Color Temperature	Power Supply	Power Consumption	IP Rating (Option: IP67)	Connection	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
VL-BLC-30-30-R-24-C30	R	625nm	24VDC	1.2W	IP50	M8 4 pin w 300mm cable	30	30	37	48	13.5
VL-BLC-30-30-W-24-C30	W	6500K	24VDC	1.4W	IP50	M8 4 pin w 300mm cable	30	30	37	48	13.5
VL-BLC-30-60-R-24-C30	R	625nm	24VDC	2.2W	IP50	M8 4 pin w 300mm cable	30	60	37	79	13.5
VL-BLC-30-60-W-24-C30	W	6500K	24VDC	2.7W	IP50	M8 4 pin w 300mm cable	30	60	37	79	13.5
VL-BLC-50-50-R-24-C30	R	625nm	24VDC	2.2W	IP50	M8 4 pin w 300mm cable	50	50	55	66	13.5
VL-BLC-50-50-W-24-C30	W	6500K	24VDC	3W	IP50	M8 4 pin w 300mm cable	50	50	55	66	13.5
VL-BLC-60-60-R-24-C30	R	625nm	24VDC	4.5W	IP50	M8 4 pin w 300mm cable	60	60	68	79	13.5
VL-BLC-60-60-W-24-C30	W	6500K	24VDC	5.5W	IP50	M8 4 pin w 300mm cable	60	60	68	79	13.5
VL-BLC-75-40-R-24-C30	R	625nm	24VDC	2.7W	IP50	M8 4 pin w 300mm cable	75	40	46	91	13.5
VL-BLC-75-40-W-24-C30	W	6500K	24VDC	3.7W	IP50	M8 4 pin w 300mm cable	75	40	46	91	13.5
VL-BLC-90-90-R-24-C30	R	625nm	24VDC	9.5W	IP50	M8 4 pin w 300mm cable	90	90	99	110	13.5
VL-BLC-90-90-W-24-C30	W	6500K	24VDC	13W	IP50	M8 4 pin w 300mm cable	90	90	99	110	13.5
VL-BLC-75-120-R-24-C30	R	625nm	24VDC	8W	IP50	M8 4 pin w 300mm cable	75	120	91	126	13.5
VL-BLC-75-120-W-24-C30	W	6500K	24VDC	11W	IP50	M8 4 pin w 300mm cable	75	120	91	126	13.5
VL-BLC-50-150-R-24-C30	R	625nm	24VDC	6.5W	IP50	M8 4 pin w 300mm cable	50	150	55	164	13.5
VL-BLC-50-150-W-24-C30	W	6500K	24VDC	8.5W	IP50	M8 4 pin w 300mm cable	50	150	55	164	13.5
VL-BLC-100-100-R-24-C30	R	625nm	24VDC	8.5W	IP50	M8 4 pin w 300mm cable	100	100	104	116	13.5
VL-BLC-100-100-W-24-C30	W	6500K	24VDC	11W	IP50	M8 4 pin w 300mm cable	100	100	104	116	13.5
VL-BLC-120-120-R-24-C30	R	625nm	24VDC	17W	IP50	M8 4 pin w 300mm cable	120	120	130	141	13.5
VL-BLC-120-120-W-24-C30	W	6500K	24VDC	21W	IP50	M8 4 pin w 300mm cable	120	120	130	141	13.5
VL-BLC-150-150-R-24-C30	R	625nm	24VDC	19W	IP50	M8 4 pin w 300mm cable	150	150	153	164	13.5
VL-BLC-150-150-W-24-C30	W	6500K	24VDC	23W	IP50	M8 4 pin w 300mm cable	150	150	153	164	13.5
VL-BLC-200-200-R-24-C30	R	625nm	24VDC	34W	IP50	M8 4 pin w 300mm cable	200	200	202	213	13.5
VL-BLC-200-200-W-24-C30	W	6500K	24VDC	44W	IP50	M8 4 pin w 300mm cable	200	200	202	213	13.5

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-BLC-30-30-W-24-C30	VL-BLC-BR-01	
2	VL-BLC-30-30-R-24-C30		
3	VL-BLC-50-50-W-24-C30	VL-BLC-BR-02	
4	VL-BLC-50-50-R-24-C30		
5	VL-BLC-75-120-W-24-C30	VL-BLC-BR-03	
6	VL-BLC-75-120-R-24-C30		
7	VL-BLC-100-100-W-24-C30		
8	VL-BLC-100-100-R-24-C30	VL-BLC-BR-04	

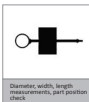
Sample Applications



Part orientation, localization, picking, classification



Groove, part, dimension, completeness check



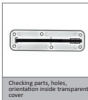
Diameter, width, length measurements, part position check



Diameter, angle, axis, concentricity measurements, part position check



Burr, completeness, quality check of the part



Checking parts, holes, orientation inside transparent cover



Facing point check on plastic parts, warping, short shot, flash, burr, part existence



Part assembling, positioning, angle check



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.