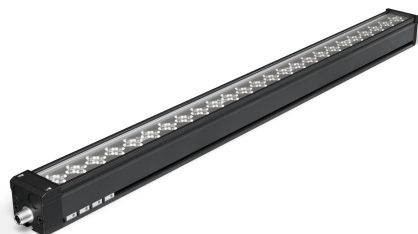


# Bar Light Flash

red light, 625 mm

## LBFR601

Part Number



- **Extremely short rise time**
- **Flexibility: expand the beam angle with an Angle Changer**
- **High power OverDrive**
- **No external control required**

The bar lights from the LBF series achieve a light output of up to 2.5 million lux and are suitable for small to large working distances. As direct lights, they enable lighting concepts such as brightfield, darkfield, dome illumination and low-angle illumination. With a rise time of up to 800 ns, they support very short exposure times of vision systems, which minimizes motion blur in high-speed applications. They can be triggered directly via the camera; a separate timing controller is not required. Direct synchronization is possible in the powerful flash mode OverDrive. Angle changers allow flexible adjustment of the beam angle and polarization of the light.

### Technical Data

Optical Data	
Light Source	Red Light
Wavelength	630 nm
Beam angle	± 7 °
Red light output	7764 W/m <sup>2</sup>
Measuring point distance	200 mm
Compatible with	Angle Changer
Environmental conditions	
Temperature Range	0...40 °C
Storage temperature	-20...60 °C
Atmospheric humidity	< 80%, non-condensing
Electrical Data	
Supply Voltage	21,6...26,4 V DC
Power	42 W
Peak power	60 W
Current Consumption Continuous Mode (U <sub>b</sub> = 24 V)	1,75 A
Current consumption flash mode OverDrive (operating voltage = 24 V)	2,5 A
Flash duration (max.)	2,5 ms
Duty cycle (max.)	3,5 %
Rise time	0,8 μs
Fall time	0,25 μs
Input signal	PNP/NPN
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III
Dimming	0...10 V ± 100...30%
OverDrive	yes
Mechanical Data	
Luminous Field Length (L)	625 mm
Luminous Field Width (W)	31,5 mm
Luminous Field	625 × 31,5 mm
Housing Material	Aluminum, anodised
Housing Material	Plastic, ABS
Housing Material	Plastic, PC
Degree of Protection	IP65
UL Enclosure Type	1
Optic Cover	Plastic, PMMA
Connection	M12 × 1; 5-pin
Max. cable length	34 m
Function	
Operating modes	Flash mode OverDrive
Connection Diagram No.	<b>007</b>
Suitable Mounting Technology No.	<b>925</b>

### Complementary Products

ZBAG angle changer
ZBAZ001 bar clamp
ZC4G003 connection cable
ZDCG004 connection cable
ZDCG005 connection cable

