

Bar Light FL-BR Series

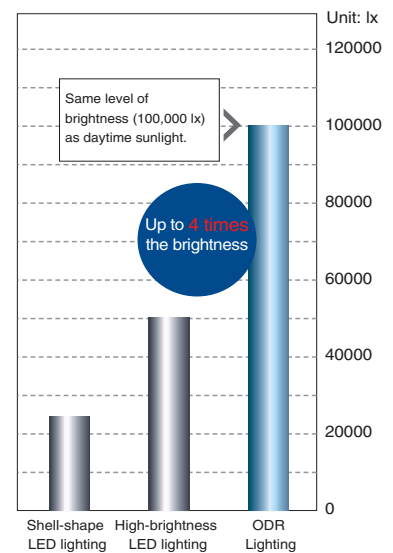
The highest level* of brightness in the industry.
This series is structured for adaptable wiring and mounting.



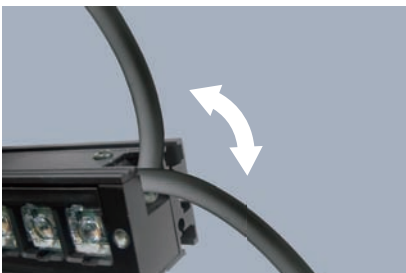
* Based on OMRON testing in November 2010.

Product Features

- High-brightness ODR lighting beyond the limitations of LEDs.
- Stable inspection even for high-speed applications.
- Bright even through a polarizing filter.
- Easy wiring, mounting, and adjustment.



Wiring



The cable can extend from either direction, allowing for horizontal or vertical wiring layouts on the mounting surface.

Mounting and Adjustment

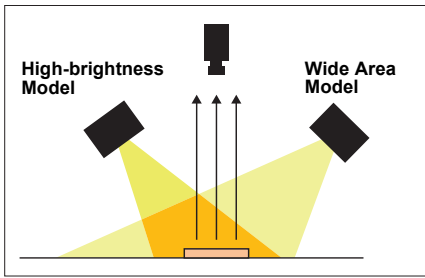


The light is structured for mounting with nuts to an arm on the back or side surfaces. Minute changes in the position can be achieved by sliding the light.

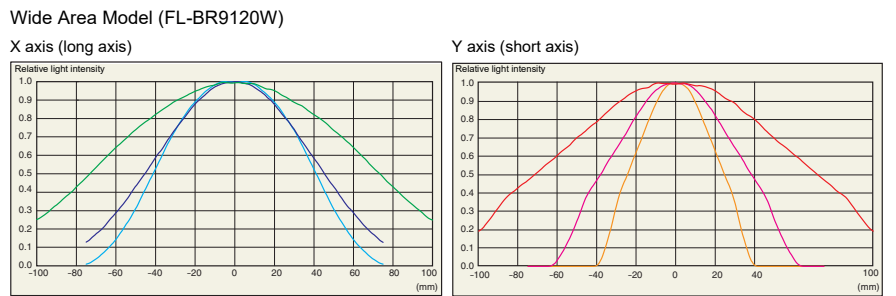
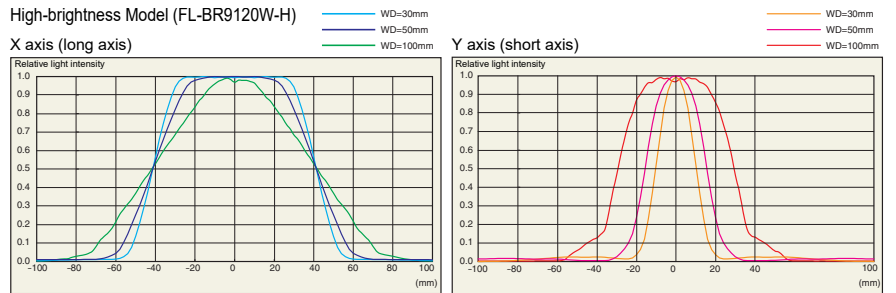


Specialized mounting brackets enable mounting at a flexible angle.

Illumination Structure



Lighting Intensity Distribution Characteristics



Applications

Standard light



It is difficult to read characters with low contrast.

FL Series



Sharp images are created of both two-dimensional codes and characters.

Standard light



Inspection is not possible because of workpiece blurring or a lack of brightness.

FL Series



Complete extraction of edges and characters.

Ordering Information

Model	Color	Type	Dimensions				Controller			Weight (g)	Options	
			Lighting Area Dimension (mm)	Outside Dimension (mm)	Height (mm)	Drawing	FL-STC□	FL-TCC□	FL-TCC1PS		Diffusion Plate	Polarization Plate
FL-BR5020W	WHITE	Wide Area Model	40.8x9	49.8x20	20	A	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	40	<input type="radio"/>	<input type="checkbox"/>
FL-BR5020W-H	WHITE	High-brightness Model										
FL-BR9120W	WHITE	Wide Area Model	81.6x9	90.6x20	20	B	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	70	<input type="radio"/>	<input type="checkbox"/>
FL-BR9120W-H	WHITE	High-brightness Model										
FL-BR13120W	WHITE	Wide Area Model	122.4x9	131.4x20	20	C	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	100	<input type="radio"/>	<input type="checkbox"/>
FL-BR13120W-H	WHITE	High-brightness Model										

Note: Refer to page 66 for LED Characteristics.

The color of white LEDs can vary due to intrinsic characteristics. Confirm suitability for the application in advance.

○: Applicable ✕: Not applicable

Bar Light FL-BR Series

Specifications

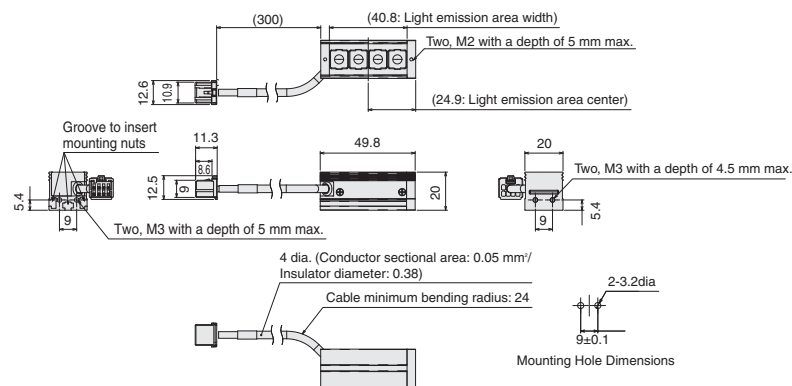
Model	Wide Area Model	High-brightness Model	Wide Area Model	High-brightness Model	Wide Area Model	High-brightness Model
	FL-BR5020W	FL-BR5020W-H	FL-BR9120W	FL-BR9120W-H	FL-BR13120W	FL-BR13120W-H
Light source	White LEDs					
Vibration resistance	10 to 150 Hz (Double amplitude: 0.7 mm), 80 min each in X, Y, and Z directions					
Shock resistance	150 m/s ² 3 times each in 6 directions					
Ambient temperature	Operating: 0 to 40°C, Storage: -15 to 60°C (with no icing or condensation)					
Ambient humidity	Operating/storage: 35% to 85% (with no condensation)					
Ambient atmosphere	No corrosive gases.					
Degree of protection	IEC60259 IP20					
Weight	Approx. 40 g		Approx. 70 g		Approx. 100 g	
Materials	Case: Aluminum; Cover, side parts, and lens: PC; Cable: Heat resistant polyvinyl chloride; Connector: Thermoplastic resin with glass					
LED safety	Risk Group 2 (IEC 62471)					
Accessories	Instruction sheet					

The color of white LEDs can vary due to intrinsic characteristics. Confirm suitability for the application in advance.

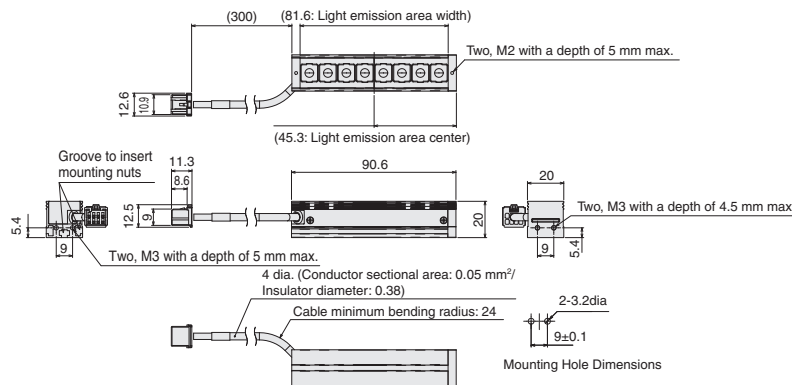
Dimensions

(Unit:mm)

A FL-BR5020W(-H)



B FL-BR9120W(-H)



C FL-BR13120W(-H)

