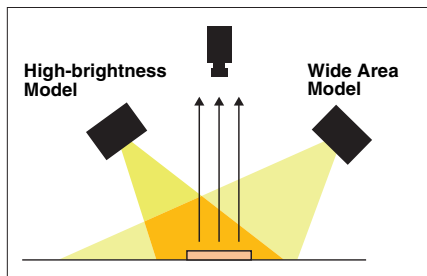


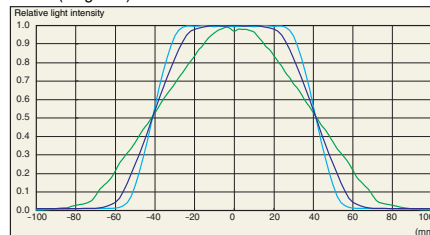
Illumination Structure



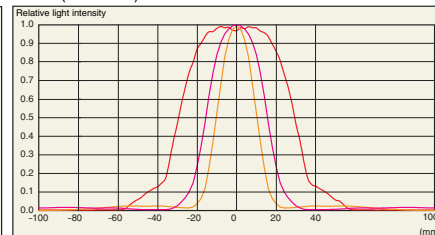
Lighting Intensity Distribution Characteristics

High-brightness Model (FL-BR9120W-H)

X axis (long axis)

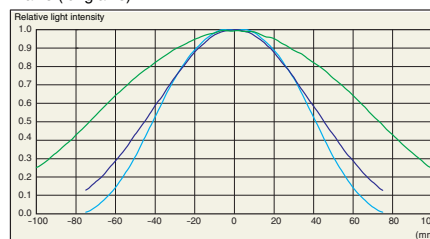


Y axis (short axis)

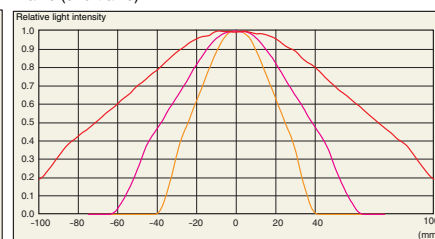


Wide Area Model (FL-BR9120W)

X axis (long axis)



Y axis (short axis)



Applications

Standard light



It is difficult to read characters with low contrast.

FL Series



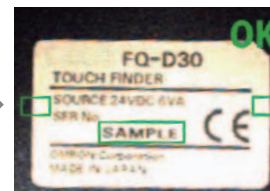
Sharp images are created of both two-dimensional codes and characters.

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	○	○	×	40	○	×
FL-BR5020W-H	WHITE	High-brightness Model										
FL-BR9120W	WHITE	Wide Area Model	81.6x9	90.6x20	20	B	○	○	×	70	○	×
FL-BR9120W-H	WHITE	High-brightness Model										
FL-BR13120W	WHITE	Wide Area Model	122.4x9	131.4x20	20	C	○	○	×	100	○	×
FL-BR13120W-H	WHITE	High-brightness Model										

Note: Refer to page 69 for LED Characteristics.

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

○: Applicable ×: Not applicable

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/s² 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)

