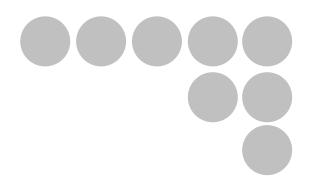
# OMRON

High luminance Illumination And Strobe Controller for FZ Series



### Data sheet

Cat. No. Q176-E1-02

## Bar-Type Illumination

Direct illumination from an free angle can be obtained for each type of work.

#### **Main Uses**

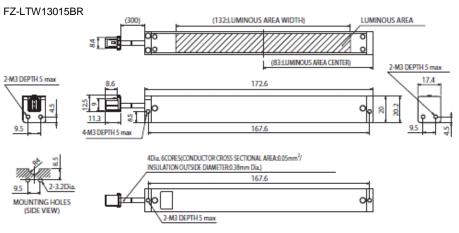
- -Appearance inspection of rechargeable battery.
- -Date verification of package.
- -Crack inspection of Molding.
- -Size measurement of electronic part.

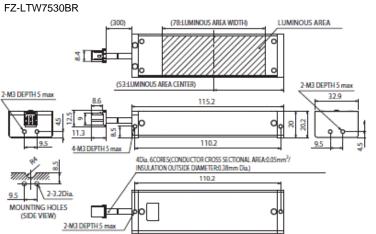


#### **Specifications**

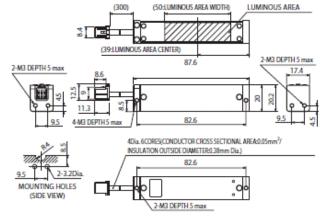
	FZ-LTW5015BR	FZ-LTW7530BR	FZ-LTW13015BR		
Luminous Area size	50mm x 15mm	78mm x 30mm	132mm x 15mm		
Light source	White LED				
Lighting system	4-block lighting with variable illumin	ation intensity			
Mean life (Typical)		10,000hours (Time required for the illumination intensity to drop to 50% of original level at shipment at maximum intensity with the ambient temperature of 25°C)			
Power consumption	18W maximum(12 VDC, 1.5A maxi	18W maximum(12 VDC, 1.5A maximum) (including strobe controller and camera)			
Vibration resistance	10 to 150 Hz, half-amplitude : 0.35 mm(maximum acceleration 50 m/s²) 10 times for 8 minutes each in directions				
Shock resistance	150 m/s <sup>2</sup> 3 times each in 3 directions				
Ambient Temperature	Operating: 0 to 50° C (with no icing or condensation) Storage: -25 to 60° C (with no icing or condensation)				
Ambient humidity	Operation and storage: 35 to 85 % (with no condensation)				
Ambient environment	No corrosive gases				
Degree of protection	IEC60259 IP20				
Material	Case for Illumination : Galvanized steel sheet metal, Cover for Illumination : PC				
Weight (including Cable)	Approx. 80 g	Approx. 150g	Approx. 140g		

#### **■**Dimensions(UNIT:mm)





#### FZ-LTW5015BR



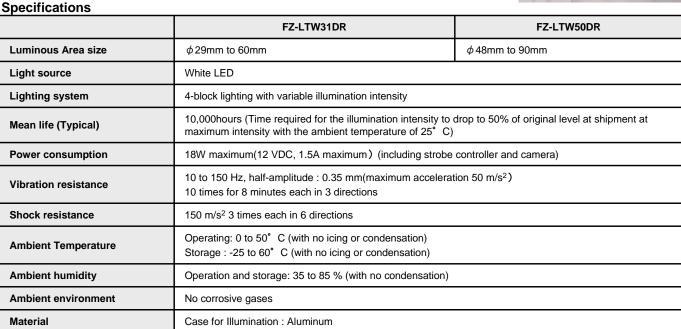
### Direct ring-Type Illumination

High-luminance LEDs deployed at high density to produce 360-degree illumination.

Approx. 100 g

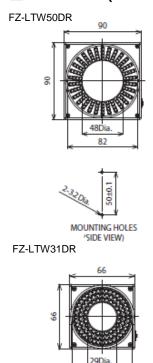
#### **Main Uses**

- Positioning of PC board.
- Existence of chip component.
- Existence of automotive assembled parts.
- Label inspection.

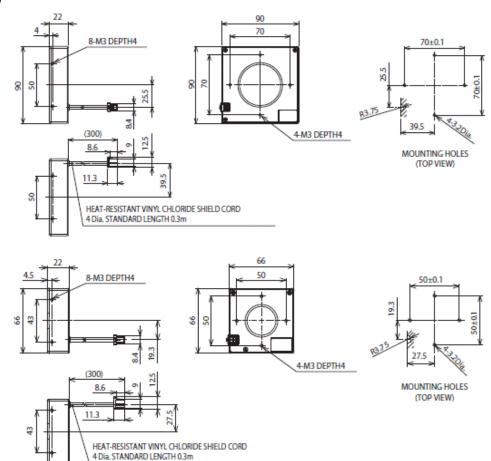


#### **■**Dimensions(UNIT:mm)

Weight (including Cable)



MOUNTING HOLES (SIDE VIEW)



Approx. 160 g

### Coaxial Illumination

#### Produces coaxial lighting.

#### **Main Uses**

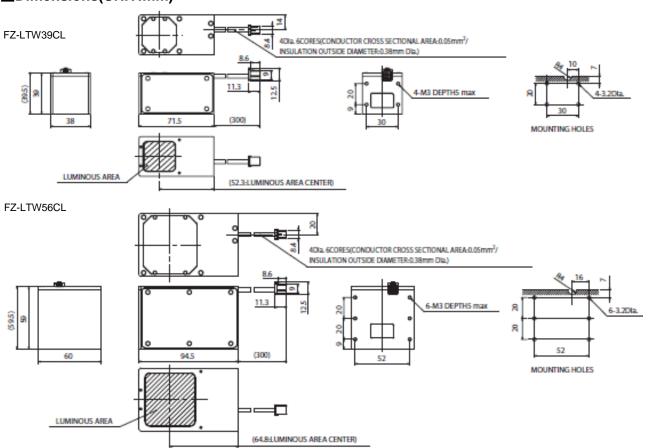
Alignment inspection of wafer, metal surface, film, LC, and other mirror-finished materials,



#### **Specifications**

	FZ-LTW39CL	FZ-LTW56CL		
Luminous Area size	28mm x 30.5mm	50mm x 47mm		
Light source	White LED			
Lighting system	4-block lighting with variable illumination intensity			
Mean life (Typical)		10,000hours (Time required for the illumination intensity to drop to 50% of original level at shipment at maximum intensity with the ambient temperature of 25°C)		
Power consumption	18W maximum(12 VDC, 1.5A maximum) (including strobe	18W maximum(12 VDC, 1.5A maximum) (including strobe controller and camera)		
Vibration resistance	10 to 150 Hz, half-amplitude: 0.35 mm(maximum acceleration 50 m/s²) 10 times for 8 minutes each in 3 directions			
Shock resistance	150 m/s <sup>2</sup> 3 times each in 6 directions			
Ambient Temperature	Operating: 0 to 50° C (with no icing or condensation) Storage: -25 to 60° C (with no icing or condensation)			
Ambient humidity	Operation and storage: 35 to 85 % (with no condensation)			
Ambient environment	No corrosive gases			
Degree of protection	IEC60259 IP20			
Material	Case for Illumination : Galvanized steel sheet metal Cover for Illumination : PC			
Weight (including Cable)	Approx. 200 g Approx. 400 g			

### **■**Dimensions(UNIT:mm)



### Strobe Controller

One Strobe Controller can control 2 illuminations. Easy to wiring and lighting control.

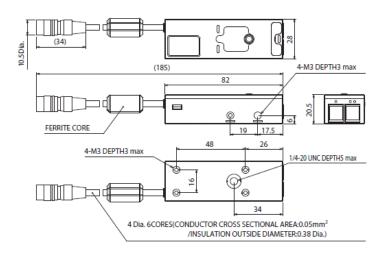


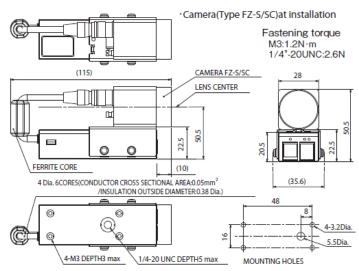
#### **Specifications**

	FZ-LTA100	FZ-LTA200	
Number of channel for illumination	1ch	2ch	
Connectable camera	FZ-S,FZ-SC,FZ-S2M,FZ-SC2M,FZ-SP,FZ-SPC,FZ-SF,FZ-SFC		
Connectable camera cable	FZ-VS(2m/5m), FZ-VSL(2m/5m), FZ-VSB(2m/5n	n) *1	
Controllable software version	FZ3-(H)9**Series : FZ3 Ver.3.13 or more FZ3-(H)3**/(H)7**Series : FZ3 Ver.2.00 or more	*2	
Power supply voltage	DC +12 V ± 10% (supply from Camera)		
Output current	300 mA maximum		
Number of trigger for illumination	4 signals x 1ch(individual)	4 signals x 1ch(individual)	
Auto-Light Control for High-Shutter Speed	Yes (Selectable) Default : OFF		
ON period for illumination trigger	Synchronous for Shutter timing of Camera (variable)		
Power consumption	18W maximum(12 VDC, 1.5A maximum) (including strobe controller and camera)		
Vibration resistance	10 to 150 Hz, half-amplitude: 0.35 mm (maximum acceleration 50 m/s²) 10 times for 8 minutes each in directions		
Shock resistance	150 m/s <sup>2</sup> 3 times each in 3 directions		
Ambient Temperature	Operating: 0 to 50° C (with no icing or condensation) Storage: -25 to 60° C (with no icing or condensation)		
Ambient humidity	Operation and storage: 35 to 85 % (with no condensation)		
Ambient environment	No corrosive gases		
Degree of protection	IEC60259 IP20		
Material	Case for strobe controller : PC/ABS, Attachment for camera : Stainless steel : PC		
Weight (including Cable)	Approx. 80 g (including Cable)		

<sup>\*1</sup> It is impossible to use camera cable more than 10m. However, it is possible to extend the length (max. 15m) by jointing cables (max. 3 pieces), when using Camera Cable Extension Unit (FZ-VSJ).

#### **■**Dimensions(UNIT:mm)





<sup>\*2</sup> This strobe controller is recognized as type FZ-SLC100 in FZ3-(H)3\*\* / (H)7\*\* series (previous ver2.12). And so, the image of LED's allocation on the Menu is displayed as FZ-SLC100's one. Refer to the instruction sheet of Illumination FZ-LT Series about the relation between lighting block and selected part.

### Extension cable

#### **Specifications**

	FZ-LT-EXV 1M	FZ-LT-EXV 3M	FZ-LT-EXV 5M
Usable Illumination	All type		
Cable length	1m	3m	5m

 $<sup>{}^{\</sup>star}\mathsf{The}$  only one extension cable can be connected with one Illumination.

### Option

#### **Diffusion Plate for Bar-type Illumination**

#### **Specifications**

	FZ-LT-DF5015BR	FZ-LT-DF7530BR	FZ-LT-DF13015BR
Usable Illumination	FZ-LTW13015BR	FZ-LTW7530BR	FZ-LTW5015BR
Ambient Temperature	Operating: 0 to 50° C (with no icing or condensation), Storage : -25 to 60° C (with no icing or condensation)		
Ambient humidity	Operation and storage: 35 to 85 % (with no condensation)		
Ambient environment	No corrosive gases		
Material	Diffusion Plate :PMMA, Spacer :ABS		
Cable length	Approx. 5g	Approx. 10g	Approx. 10 g

### Diffusion Plate for Ring-type Illumination

#### **Specifications**

	FZ-LT-DF31DR	FZ-LT-DF50DR	
Usable Illumination	FZ-LTW31DR	FZ-LTW50DR	
Ambient Temperature	Operating: 0 to 50° C (with no icing or condensation), Storage : -25 to 60° C (with no icing or condensation)		
Ambient humidity	Operation and storage: 35 to 85 % (with no condensation)		
Ambient environment	No corrosive gases		
Material	Diffusion Plate :Acrylic resin		
Cable length	Approx. 5 g	Approx. 5g	

### Polarizing Plate for Ring-type Illumination

#### **Specifications**

	FZ-LT-PL31DR	FZ-LT-PL50DR	FZ-LT-PL31DR-C	FZ-LT-PL50DR-C
Usable Illumination	FZ-LTW31DR	FZ-LTW50DR	FZ-LTW31DR (Camera)	FZ-LTW50DR(Camera)
Ambient Temperature	Operating: 0 to 50° C (with n	Operating: 0 to 50° C (with no icing or condensation), Storage : -25 to 60° C (with no icing or condensation)		
Ambient humidity	Operation and storage: 35 to 85 % (with no condensation)			
Ambient environment	No corrosive gases			
Material	PET			
Cable length	Approx. 5 g	Approx. 10g	Approx. 5 g	Approx. 10g

#### adaptor

#### **Specifications**

	FZ-LT-AD31DR	FZ-LT-AD50DR
Usable Illumination	FZ-LTW31DR	FZ-LTW50DR

# Revision History

Date	Revised contents	
January, 2010	Original production	
September, 2012	Page 4 : Changed Weight	

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