

Optical Specification	
Model	OPT-CH03-110FC-F6.5
Optical Configuration	Bi-Telecentric
Working Distance (mm)	110± 2
Magnification	0.3X
Sensor Ø (mm)	11.0(2/3")
Aperture	F6.5
Telecentricity	0.10°
NA	0.02308
Distortion	<0.1%
Depth of Field (mm)	5.96
Resolution (μm)	3.45
Image MTF30 (lp/mm)	145
Field of View Ø (mm)	36.67
O/I Distance (mm)	260.8
Mount	C-Mount
Weight (kg)	0.31
Size (mm)	Ø 52.0×133.3
Filter Thread (mm)	M49×0.5-6H
Working Temperature	0°C~+40°C

[1]Resolution:The resolution is the image resolution.

[2]DOF evaluation formula for telecentric lenses:

$$DOF(mm)= \frac{F\# \times P \times k}{\beta \times \beta}$$

F#:The real F-number of a lens when used

P:Sensor pixel size (5.5 μm used here)

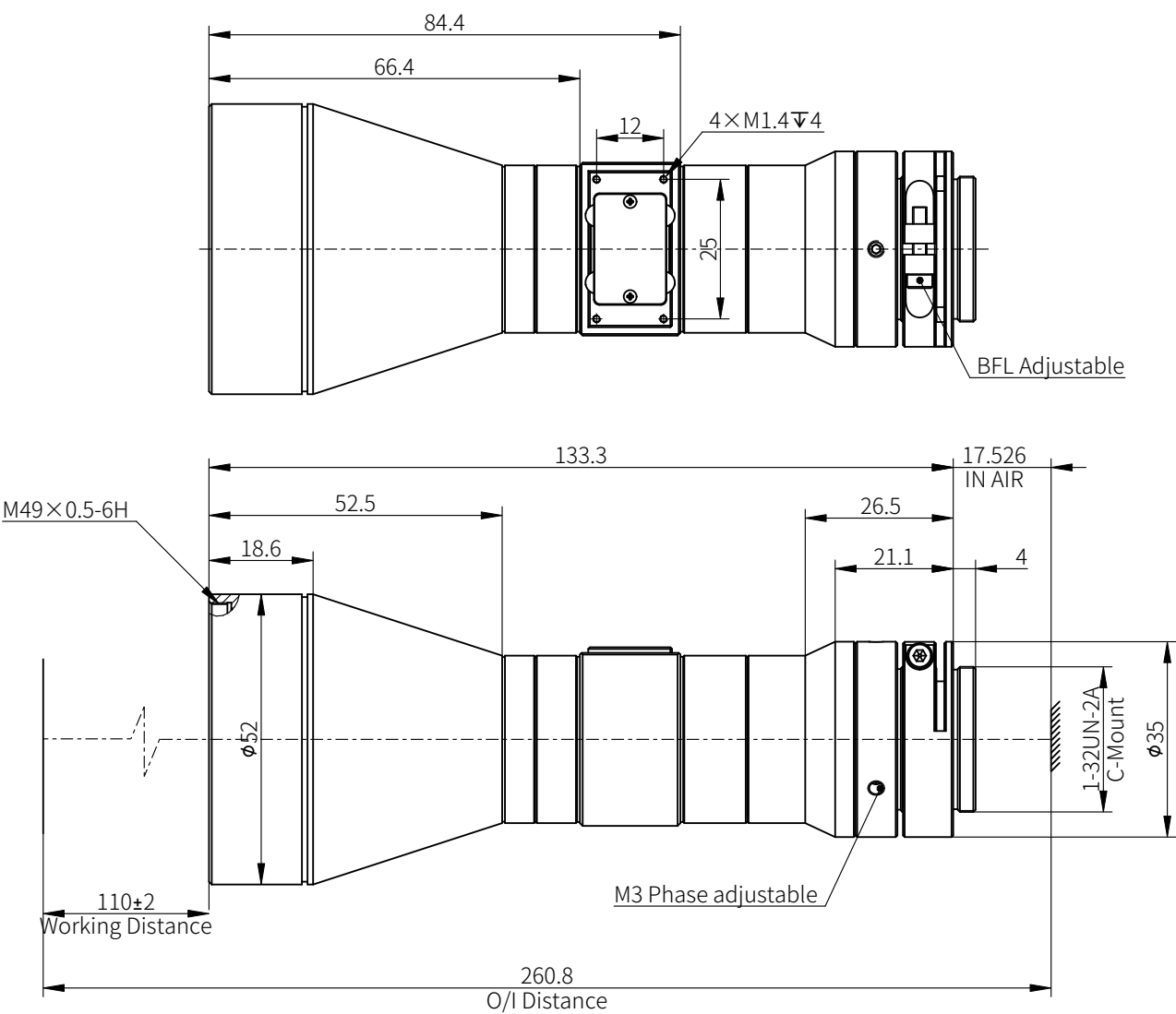
β:Lens magnification

k:The parameter based on application (measurement,

k=0.015; defect detection, k=0.008; 0.015 used here)

At the borders of DOF, the image can still be used for measurement.But only half of the nominal DOF should be used to get a sharp image.

[3]The lens supports dedicated surface illumination. For objects with low reflectivity, a dedicated surface light source is recommended for better illumination. Optional OPT-FL3118-CH-X is available as an option.

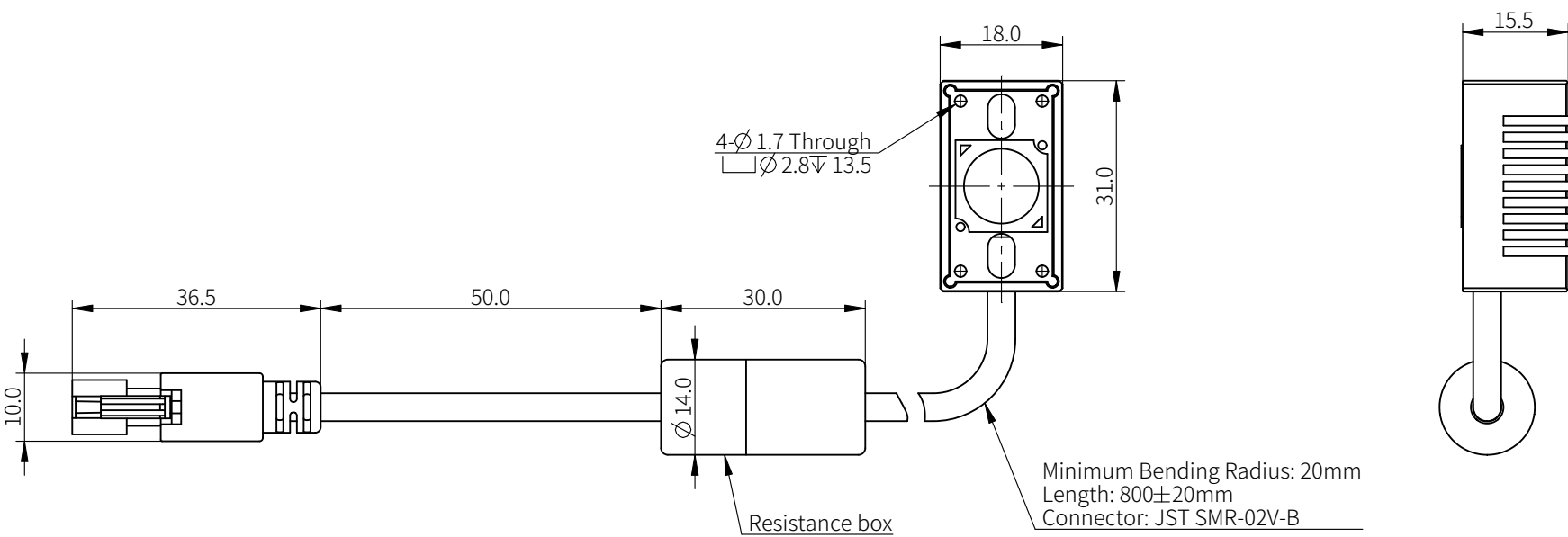


View Angle		Item	Signature	Date	OPT Machine Vision Tech Co., Ltd.			
		Drawing						
Standard Difference	IT14	Design			All Rights Reserved			
		Check						
Drawing Code		Scale	4:5		Name	OPT-CH03-110FC-F6.5		
		Paper Size	A4		Unit	mm	Page 1 / 2	Version V1.0

A				B		C		D		
Model	Color	Voltage	Power					Pin	Polarity	Wire Color
OPT-FL3118-CH-R	Red	24V	2.88W					1	+	/
OPT-FL3118-CH-G	Green	24V	2.88W					2	-	/
OPT-FL3118-CH-B	Blue	24V	2.88W							
OPT-FL3118-CH-W	White	24V	2.88W							

JST SMR-02V-B, 2 Pin
or Compactible Connector





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		Drawing							
Standard Difference	IT14	Design			All Rights Reserved				
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Drawing Code		Scale			Name	OPT-FL3118-CH-X			
		Paper Size	A4		Unit	mm	Page 2 / 2	Version	V1.0.1