

Fiber Illuminator

Glass fiber

50 μ m diameter glass fiber for visible light. Excellent for high temperature and humidity conditions. Also useful as standard visible light source.

Plastic fiber light guide

Fiber light source with good transmission characteristics for visible light (made from poly methyl methacrylate). Excellent as a flexible fiber light source. Not recommended for high temperature applications. Price efficient product, highly cost effective.

Specification

[for FVL series]

Model	SLG-B6 (Glass)	SLP-B6 (Plastic)	DLG-B6 (Glass)	DLP-B6 (Plastic)
Bundle diameter	$\phi 6$			
Outside material	flexible SUS tube			
Minimum curve (R)	R35			
L: Length	1000			
	1500			
	2000			
	3000			

[for zoom series]

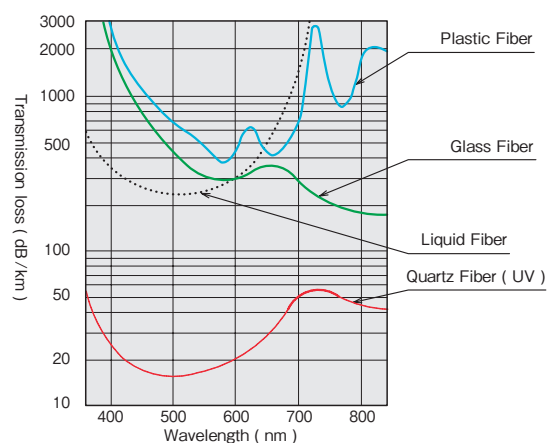
Model	SL-B5 Series	SL-B8 Series	SL-B3
Bundle diameter	$\phi 5$	$\phi 8$	$\phi 3$
Outside material	flexible SUS tube		
Minimum curve (R)	R50	R65	R45
L: Length	500	500	—
	750	750	—
	1000	1000	1000
	1500	1500	—
	2000	2000	2000
	3000	3000	3000

Model	DL-B5 (Dual Branch) / DL-B5-SUS	
Bundle diameter	$\phi 5$	
Outside material	Flexible SUS tube	Semi lock type
Minimum curve (R)	R50	
L: Length	500	500
	750	750
	1000	—
	1500	—
	2000	—
	3000	—

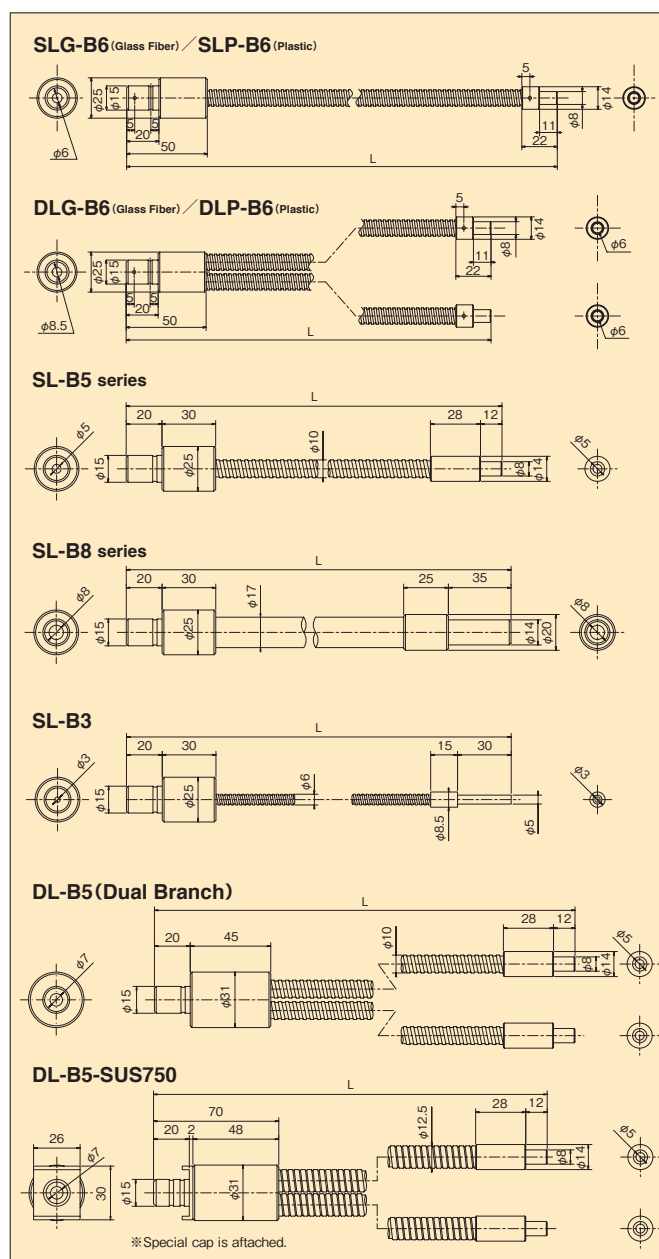
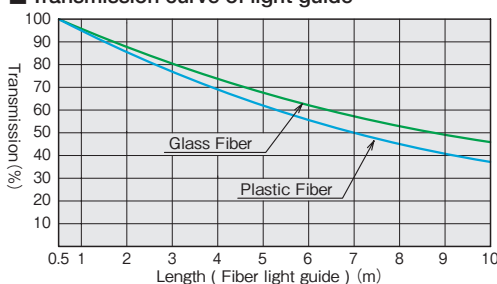
※ Semi Lock type has accessories parts for the light source that are user-configurable.

※ Triple Branch, Quadruple Branch also available.

Fiber light-guide transmission loss characteristics



Transmission curve of light guide



Ring Light Guide

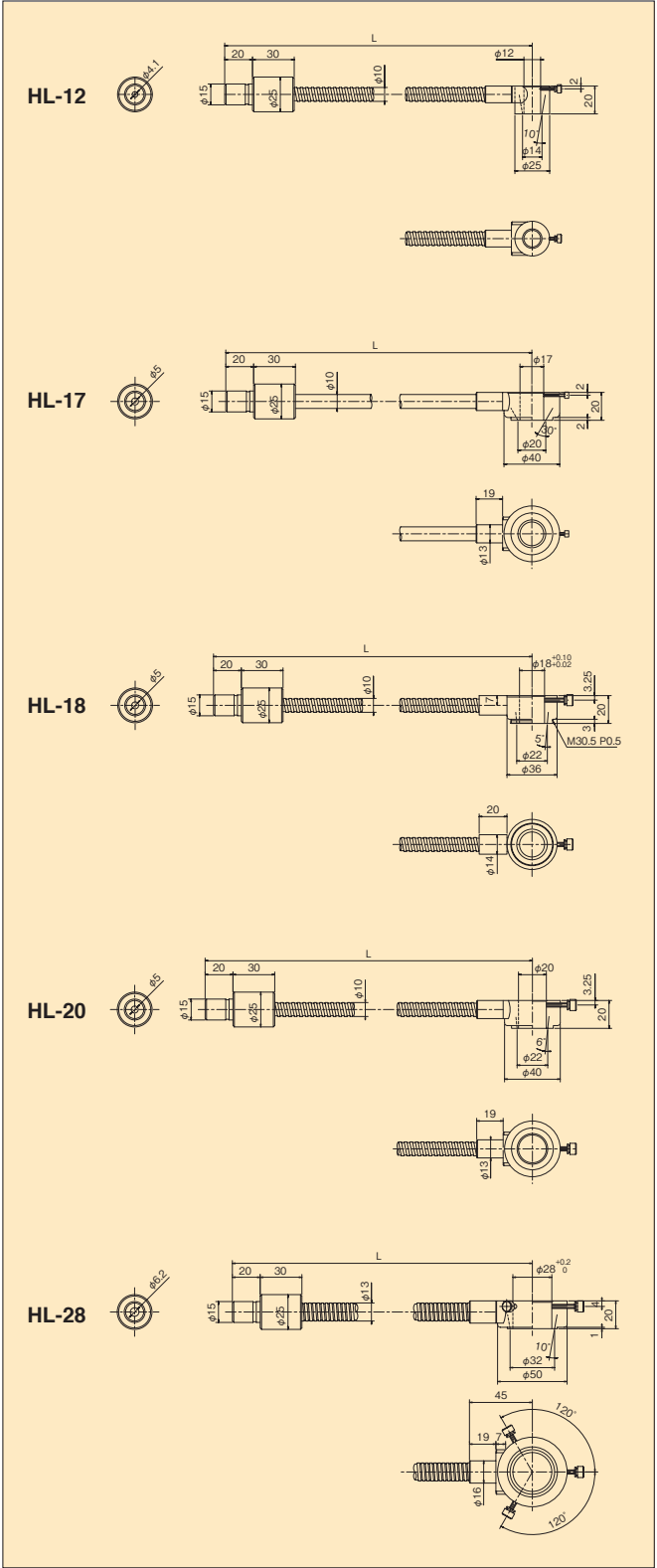
This ring illuminator can be used on any fixed magnification and zoom lens tubes. Typical applications include examining any highly contoured and channeled patterns, such as traces on PC boards.

Specification

Model	HL-12 series	HL-17 series
Inner diameter	φ12	φ17
Projector size	φ14	φ20
Projector angle	10°	30°
Bundle size	φ4.1	φ5
Outside Exterior material	Flexible SUS Tube	
Minimum curve (R)	R60	
L: Length	1000	
	1500	
	2000	
	3000	

Model	HL-18 series	HL-20 series
Inner diameter	φ18	φ20
Projector size	φ22	
Projector angle	5°	6°
Bundle size	φ5	
Outside Exterior material	Flexible SUS Tube	
Minimum curve (R)	R65	
L: Length	1000	
	1500	
	2000	
	3000	

Model	HL-28 series
Inner diameter	φ28
Projector size	φ32
Projector angle	10°
Bundle size	φ6.2
Outside Exterior material	Flexible SUS Tube
Minimum curve (R)	R60
L: Length	1000
	1500
	2000
	3000



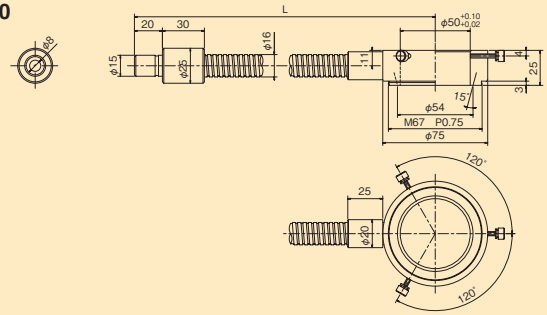
Specification

Model	HL-50 series	HL-55 series
Inner diameter	φ50	φ55
Projector size	φ54	φ58
Projector angle	15°	
Bundle size	φ8	
Outside Exterior material	Flexible SUS Tube	
Minimum curve (R)	R60	
L: Length	1000	
	1500	
	2000	
	3000	

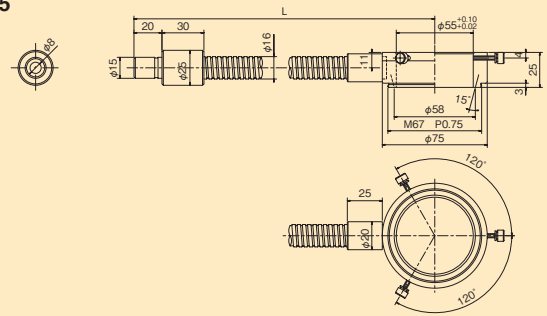
Model	VL-17 series	VL-28 series
Inner diameter	φ17	φ28
Projector size	φ20	φ32
Projector angle	10°	5°
Bundle size	φ5	φ6
Outside Exterior material	Flexible SUS Tube	
Minimum curve (R)	R50	
L: Length	1000	
	1500	
	2000	
	3000	

Model	LL-50 series
Projector length	50
Bundle size	φ8
Outside Exterior material	Flexible SUS Tube
Minimum Curve (R)	R60
L: Length	1000

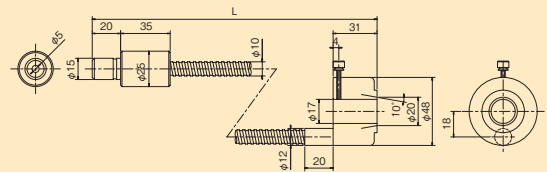
HL-50



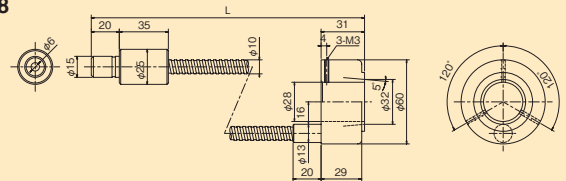
HL-55



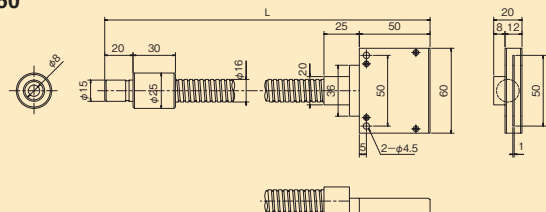
VL-17



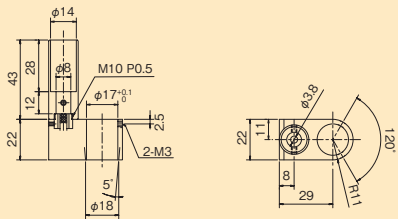
VL-28



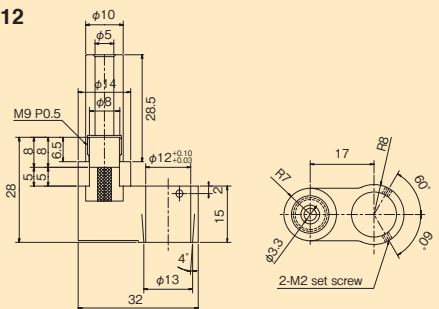
LL-50



RF-2217



RF-1812



Condenser Lens

The typical beam angle emanating from a fiber light guide is around 70°. These lenses are used with fiber light guides when a high intensity spot size smaller than 70° is needed. A variety of spot sizes can be achieved through the use of different lenses.

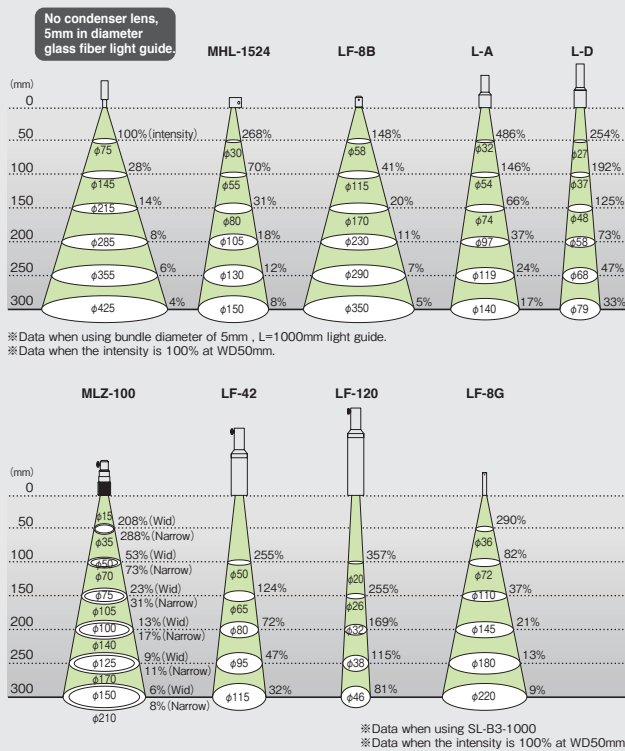


Additional information

Performance of condenser lens

※ Spot size can differ depending upon the distance of the light source to the condenser lens.

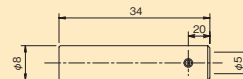
referenced data



Small diameter condenser lens

LF-8G

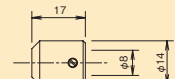
For SL-B3 series



Small diameter condenser lens

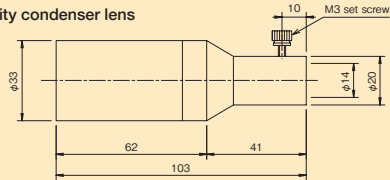
LF-8B

For SL-B5/DL-B5 series



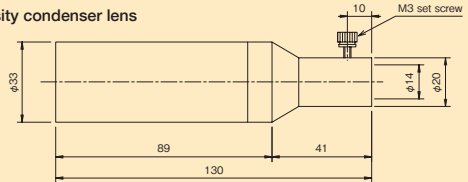
High intensity condenser lens

LF-42



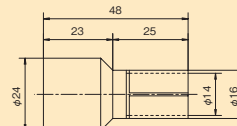
High intensity condenser lens

LF-120



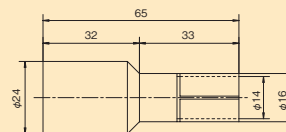
Standard type condenser lens

L-A



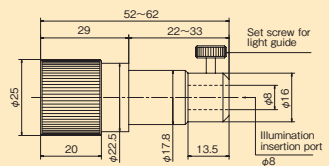
Standard high condenser lens

L-D



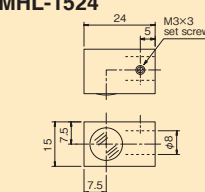
Standard high condenser lens

MLZ-100



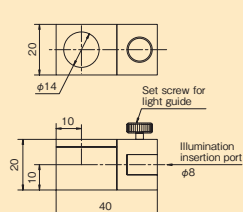
Right Angle condenser lens for back light

MHL-1524



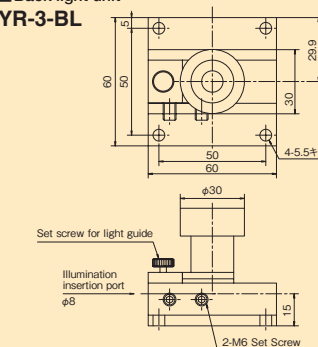
Right Angle mirror for back light

MHL-2040



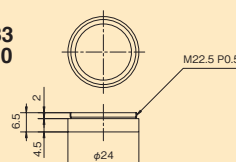
Back light unit

YR-3-BL



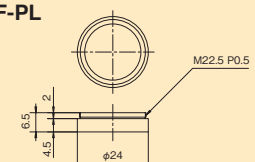
Color filter for Condenser lens

CF-R60 CF-G533 CF-B410 CF-Y48



Polarizer filter for condenser lens

CF-PL



Accessories for Illuminators

We have accessories to mount illuminations on focusing mount (P.64). We can build suitable system for you by combining optical unit, illumination, focusing mount and stand.



Flexible Arm

Hold straight light guide / dual light guide to fix the position of lighting.

■ Specification

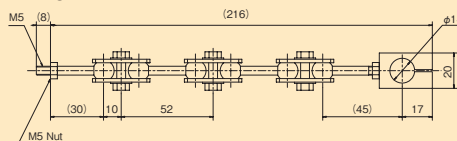
FH-3	3 joints
FH-4	4 joints
FH-5	5 joints

*different lengths are also available.

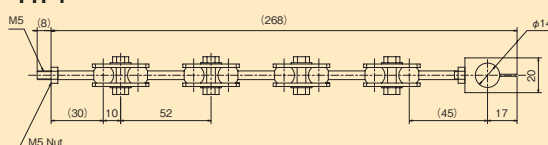
Fixing Bracket

Using with HL-AD50 to fix the position and height of ring fiber light guide or ring LED light.

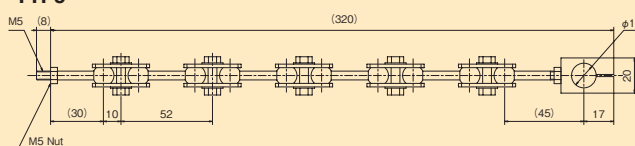
FH-3



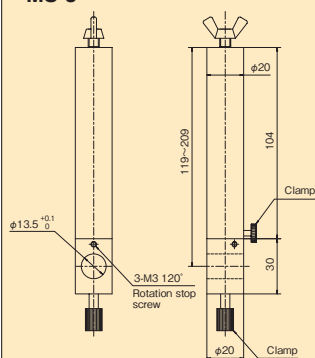
FH-4



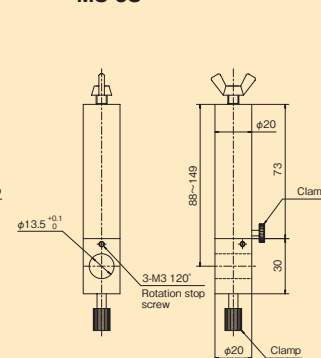
FH-5



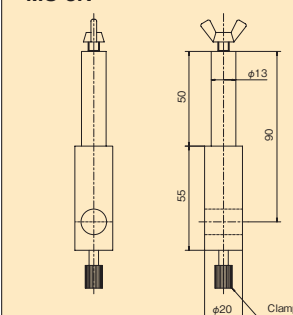
MS-8



MS-8S



MS-8N



HL-AD50

