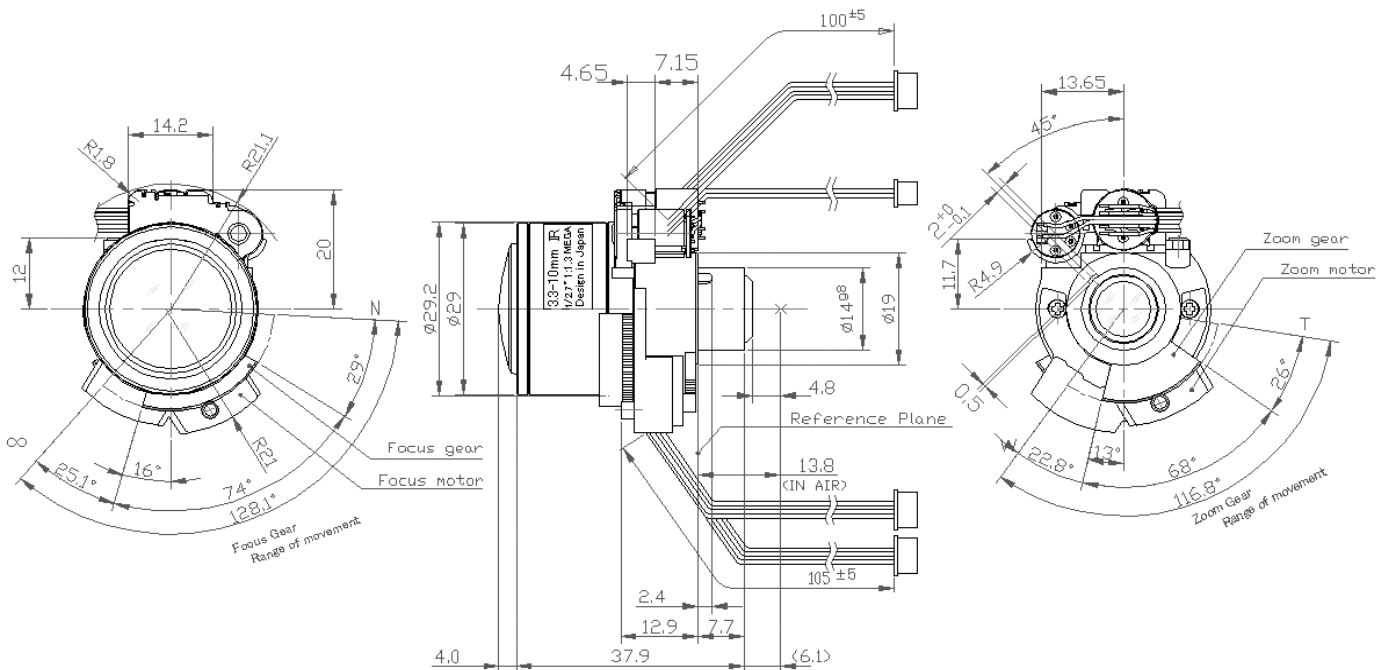


MSVF3X3313IR2-BCDN-MD



Type	AI VARI	Mount	φ 14 Straight Mount		
Focal Length	3.3~10.0mm	Back Focus	5.476~11.97mm		
Fno.	F1.3	Flange Back	13.8mm		
Designed Image Format	1/2.7"(φ 6.71)	Exit Pupil	-82.738 ~ -21.694mm		
Operation Range	Iris	F1.3-F360	Filter Size	-	
	Focus	0.5m~∞	Aperture	Front	φ 19.5mm
	Zoom	3.3~10.0mm		Rear	φ 7.0mm
Control	Iris	DC Galvanometer			
	Focus	Mortorized	Dimension	φ 29.2 x 37.9mm	
	Zoom	Mortorized	Weight	27g	
	ICR	DC Galvanometer			
Object Size at MOD	Wide	701.1x1132.2mm	545.4x1446mm		
	Tele	215.8x291.2mm	177.7x325mm		
Field of View	D	130.5° ~ 39.7°	134.8° ~ 40.4°		
	H	4:3 95.7° ~ 31.8°	16:9 109.2° ~ 35.2°		
	V	Screen 68.8° ~ 23.8°	Screen 56.1° ~ 19.7°		
Control	Iris	Focus	Zoom	IR cut filter	
Motor type	Galvanometer	PM type stepping motor	PM type stepping motor	Galvanometer	
Operation voltage	3.0V ~ 5.0V	2.8V ~ 3.6V	2.8V ~ 3.6V	3.0V ~ 5.0V	
Driving Coil resistance	190Ω /phase ±10%	28.5Ω /phase ±7%		190Ω /phase ±10%	
Damping Coil resistance	855Ω /phase ±10%	-	-	-	
Excite driving method	-	1-2phase Bipolar Constant voltage	1-2phase Bipolar Constant voltage	-	
Reduction ratio	-	1/131.574	1/131.574	-	
Step angle	-	0.171°	0.171°	-	
Insulation resistance	1MΩ or more	1MΩ or more	1MΩ or more	1MΩ or more	
Light Measuring Method	-				
Input Signal	-				
Iris Accuracy	-				
Sensitivity Adjustment	-				
Operating Temperature	-10 ~ +50 °C				

DIMENSIONS



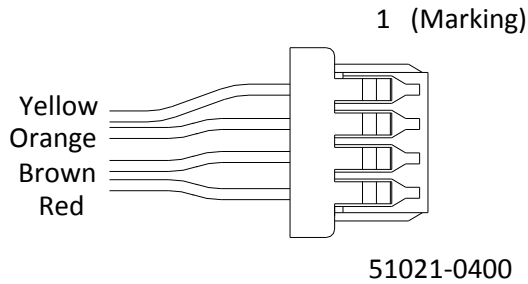
Subject to change without notice

MSVF3X3313IR2-BCDN-MD



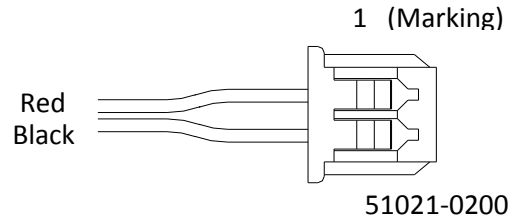
CONNECTION & CONTROL

(1) Auto Iris terminal



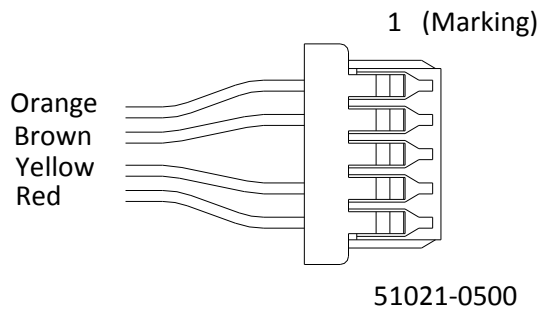
Pin number	Color	Assignment
1	Yellow	Damping(+)
2	Orange	Damping(-)
3	Brown	Driving (+)
4	Red	Driving (-)

(2) IR Cut Filter Control terminal



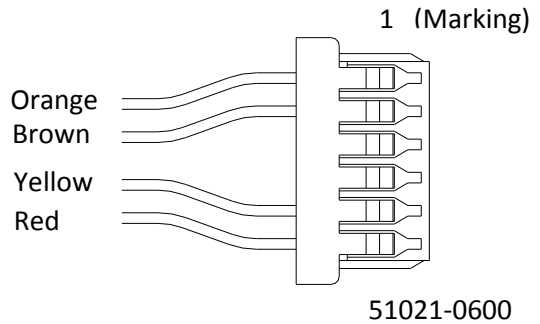
Pin number	Color	Assignment
1	Red	IR IN/OUT(-/+)
2	Black	IR GND

(3) Zoom Moter Control terminal



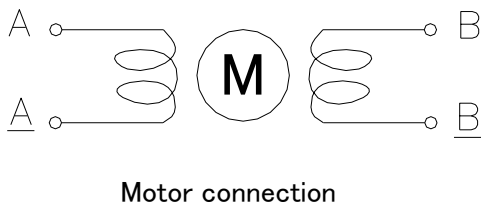
Pin number	Color	Assignment
1	Orange	B
2	Brown	A
3	N/A	N/A
4	Yellow	B
5	Red	A

(4) Focus Moter Control terminal



Pin number	Color	Assignment
1	Orange	B
2	Brown	A
3	N/A	N/A
4	N/A	N/A
5	Yellow	B
6	Red	A

(5) Moter Control Excitation pattern



Focus & Zoom

Excite Pottem of CW revolution				
Step	A	\bar{A}	B	\bar{B}
0	H	L	H	L
1	L	L	H	L
2	L	H	H	L
3	L	H	L	L
4	L	H	L	H
5	L	L	L	H
6	H	L	L	H
7	H	L	L	L