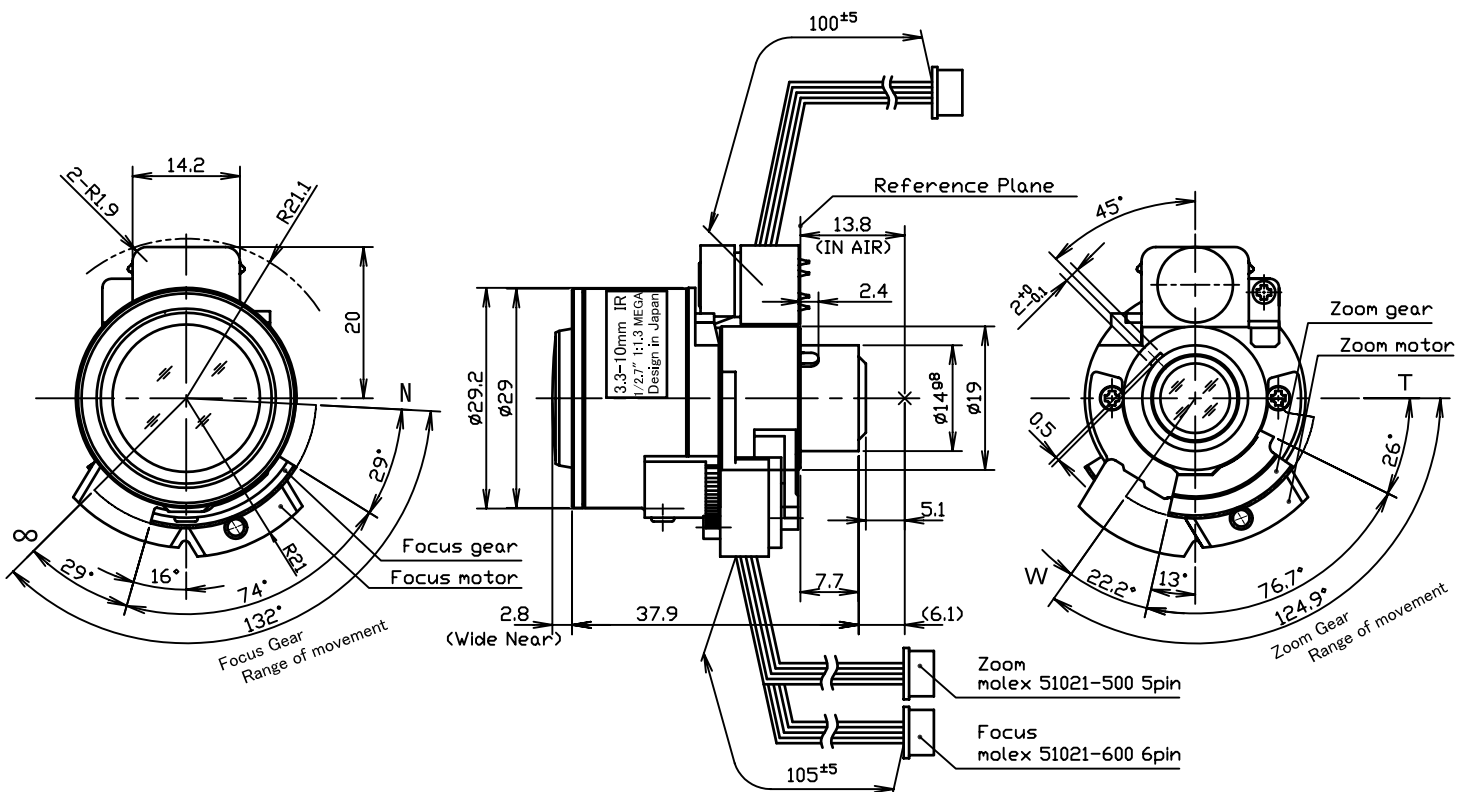


MSVF3X3313IR-BCD-MD

Type	AI VARI		Mount	ø14 Straight Mount		
Focal Length	3.3~10.0mm		Back Focus	5.7~12.3mm		
Fno.	F1.3		Flange Back	13.8mm		
Designed Image Format	1/2.7"(ø 6.75)		Exit Pupil	-66.7 ~ -21.1mm		
Operation Range	Iris	F1.3-F360	Filter Size	-		
	Focus	0.15m~∞	Aperture	Front ø 15.9mm		
	Zoom	3.3~10.0mm		Rear ø 6.5mm		
Control	Iris	DC Galvanometer	Dimension	ø29 x 37.9mm		
	Focus	Mortorized			Weight	24g
	Zoom	Mortorized				
Object Size at MOD	Wide	363.7x223.7mm				
	Tele	81.8x60.7mm				
Field of View	D	129.3°~40.5°	129.3°~40.5°			
	H	4:3 97.1°~32.4°	16:9 108.2°~35.4°			
	V	70.1°~24.3°	56.2°~19.8°			
Control	Iris	Focus	Zoom			
Motor type	Galvanometer	PM type stepping motor	PM type stepping motor			
Driving Coil/Supply Volt.	190Ω	-	-			
Damping Coil/Current	855Ω	-	-			
IR cut filter	-	-	-			
Operation voltage		2.8V ~ 3.6V	2.8V ~ 3.6V			
Coil resistance		28.5Ω/phase ±7%	28.5Ω/phase ±7%			
Excite driving method		1-2phase Bipolar Constant voltage	1-2phase Bipolar Constant voltage			
Reduction ratio		1/131.574	1/131.574			
Step angle		0.342°	0.342°			
Insulation resistance		1MΩ or more	1MΩ or more			
Light Measuring Method			-			
Input Signal			-			
Iris Accuracy			-			
Sensitivity Adjustment			-			
Operating Temperature			-10 ~ +50 degree C			

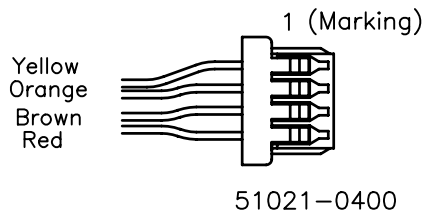
DIMENSIONS



MSVF3X3313IR-BCD-MD

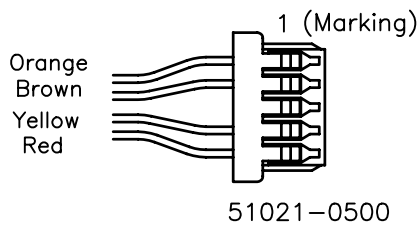
CONNECTION & CONTROL

(1) Auto Iris terminal



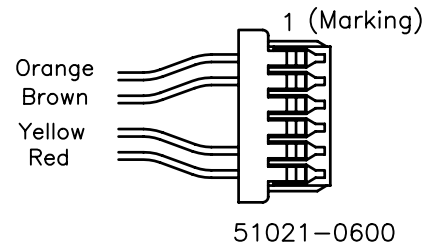
Pin number	Color	Assignment
1	Yellow	Dump +
2	Orange	Dump -
3	Brown	Drive +
4	Red	Drive -

(2) Zoom Motor Control terminal



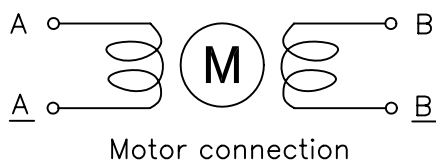
Pin number	Color	Assignment
1	Orange	B
2	Brown	A
3	N/A	N/A
4	Yellow	<u>B</u>
5	Red	<u>A</u>

(3) Focus Motor Control terminal



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

(4) Zoom/Focus Motor Control Excitation pattern



Excite Pattern of CW revolution				
Step	A	<u>A</u>	B	<u>B</u>
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