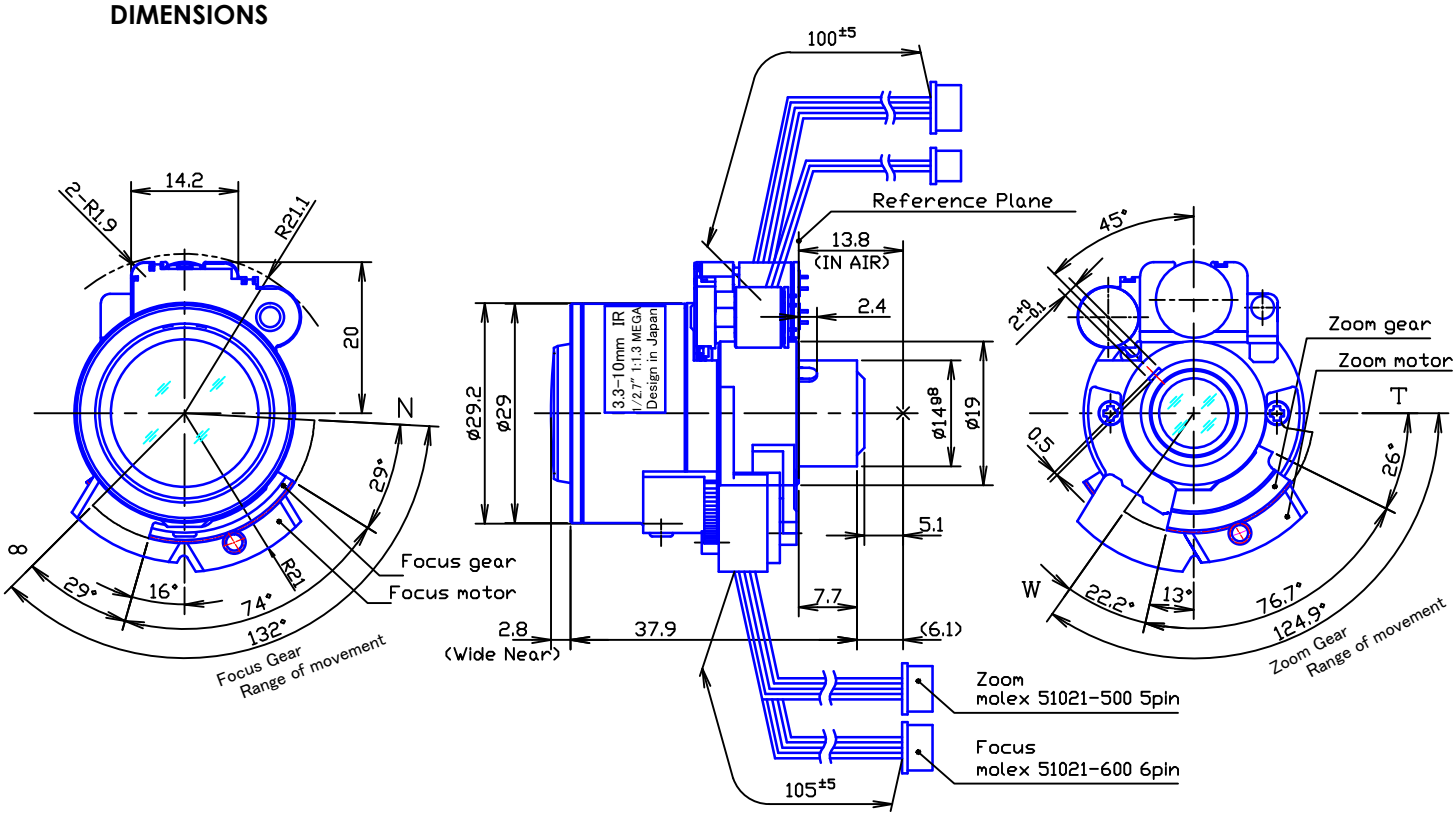
MSVF3X3313IR-BCDN-MD

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"(ϕ6.75)	Exit Pupil		−66.7 ~ −21.1mm
Operation Range	Iris	F1.3−F360	Filter Size		−
	Focus	0.5m~ ∞	Aperture	Front	ø15.9mm
	Zoom	3.3~10.0mm		Rear	ø6.5mm
Control	Iris	DC Galvanometer			
	Focus	Mortorized	Dimension		ø29 x 37.9mm
	Zoom	Mortorized	Weight		26.5g
Object Size at MOD	Wide	692.0x1105.9mm			
	Tele	214.2x288.9mm			
Field of View	D	4:3 125.3°~39.5°	16:9	129.3°~40.5°	
	H	94.5°~31.6°		108.2°~35.4°	
	V	68.3°~23.7°		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	3.0V ~ 5.0V	−	−
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		0.171°	0.171°
Insulation resistance		1MΩ or more	1MΩ or more

Light Measuring Method	−
Input Signal	−
Iris Accuracy	−
Sensitivity Adjustment	−
Operating Temperature	−10 ~+50 degree C

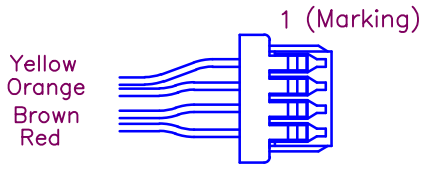
DIMENSIONS



MSVF3X3313IR-BCDN-MD

CONNECTION & CONTROL

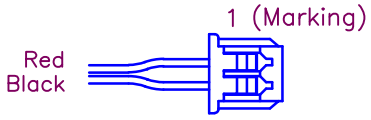
(1) Auto Iris terminal



51021-0400

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

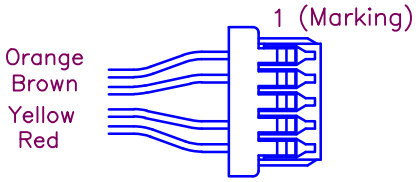
(2) IR Cut Filter Control terminal



51021-0200

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

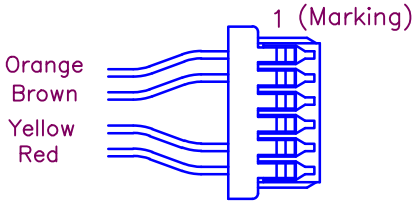
(3) Zoom Motor Control terminal



51021-0500

Pin number	Color	Assignment
1	Orange	B
2	Brown	A
3	N/A	N/A
4	Yellow	$\underline{B}$
5	Red	$\underline{A}$

(4) Focus Motor Control terminal



51021-0600

Pin number	Color	Assignment
1	Orange	B
2	Brown	A
3	N/A	N/A
4	N/A	N/A
5	Yellow	$\underline{B}$
6	Red	$\underline{A}$

(5) Zoom/Focus Motor Control Excitation pattern

Motor connection

Excite Pattern of CW revolution				
Step	A	$\underline{A}$	B	$\underline{B}$
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