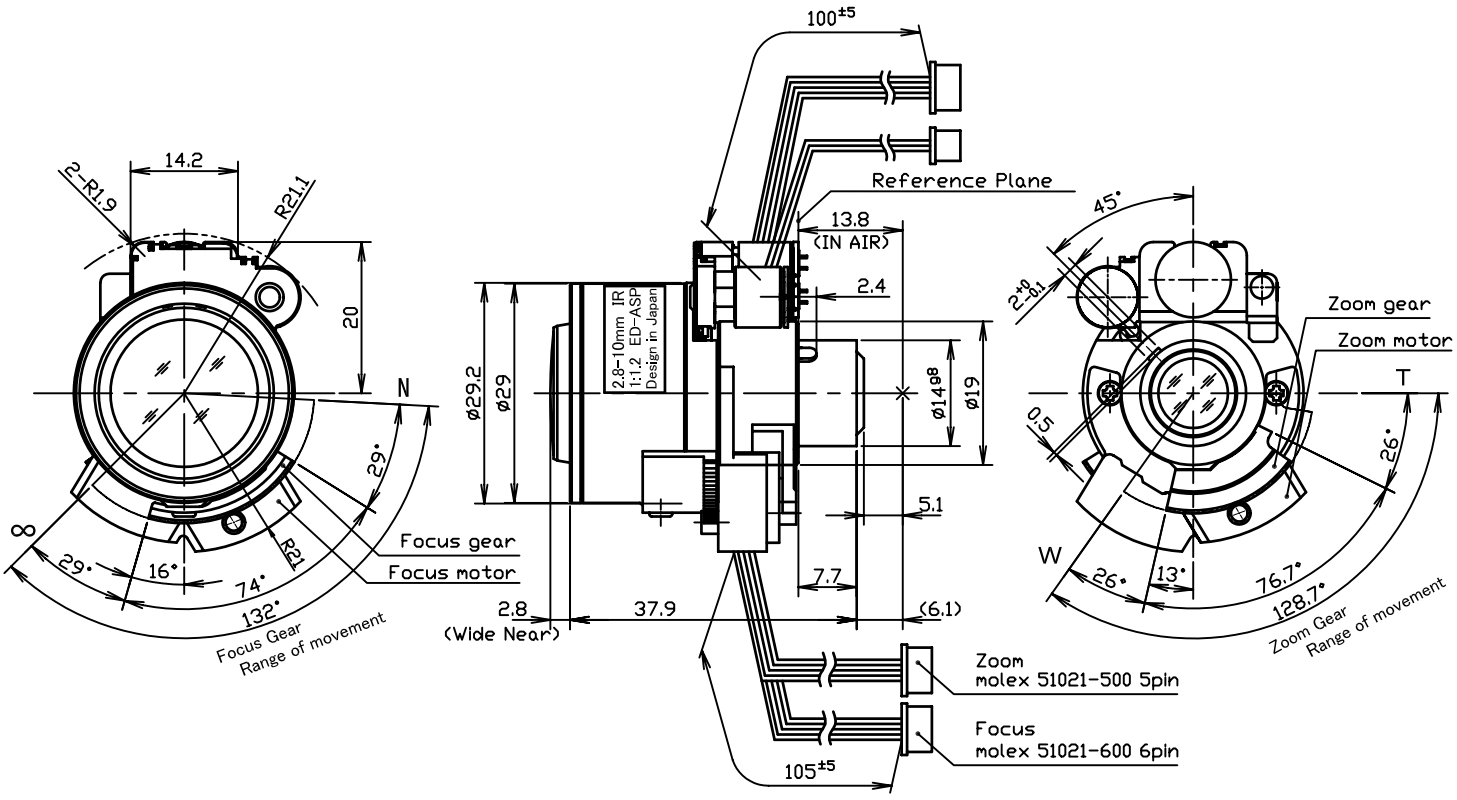
TVF3.6X2812IR-BCDN-MD

Type		AI VARI	Mount		ø14 Straight Mount
Focal Length		2.8~10.0mm	Back Focus		5.4~12.3mm
Fno.		F1.2	Flange Back		13.8mm
Designed Image Format		1/3"(4.8x3.6mm)	Exit Pupil		−103.3 ~ −21.5mm
Operation Range	Iris	F1.2−F360	Filter Size		−
	Focus	0.15m~ ∞	Aperture	Front	ø 15.9mm
	Zoom	2.8~10.0mm		Rear	ø 6.6mm
Control	Iris	DC Galvanometer			
	Focus	Mortorized	Dimension		ø29 x 37.9mm
	Zoom	Mortorized	Weight		26.7g
Object Size at MOD	Wide	216.9x347.6mm			
	Tele	60.8x81.9mm			
Field of View	D	1/3" 131.5°~36.0°	1/4" 91.6°~27.0°		
	H	98.8°~28.8°	71.1°~21.6°		
	V	71.1°~21.6°	52.2°~16.2°		

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	3.5V ~ 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		0.342°	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

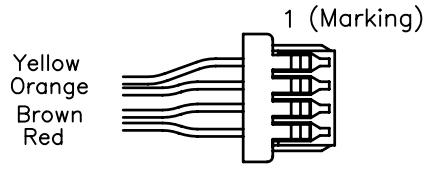
DIMENSIONS



TVF3.6X2812IR-BCDN-MD

CONNECTION & CONTROL

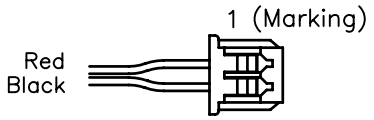
(1) Auto Iris terminal



51021-0400

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

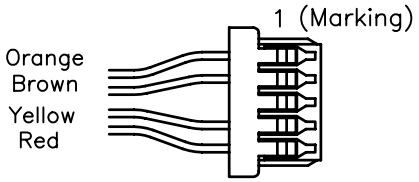
(2) IR Cut Filter Control terminal



51021-0200

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

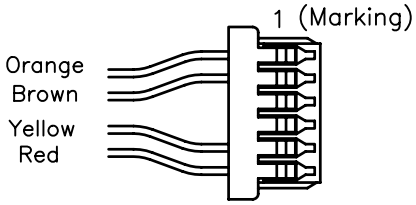
(3) Zoom Motor Control terminal



51021-0500

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

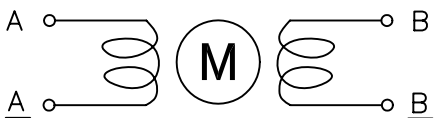
(4) Focus Motor Control terminal



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