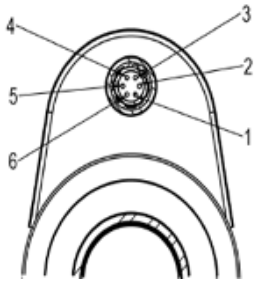
04-Feb-20
SPOE1315A3

Variable focus Fixed Focal Length Lens

Model		VS-FT12HV			
Focus tunable lens	Model	EL-16-40-TC			
	Optical power	−2 dpt	0 dpt	+0.5 dpt	+2.5 dpt
Focal Length (f)		12 mm			
Maximum Aperture Ratio		1 : 2.8			
Aperture		F 2.8 ～ F16			
WD		Over Infinity	1000 mm	490 mm	150 mm
Angle of View	(1.1″)	−	47.8 X 66.6°	47.6 X 66.2°	46.4 X 64.5°
TV Distortion	(1.1″)	−	−7.1 %	−7.0 %	−6.5 %
Relative illuminance	(Y=8.75)	−	64 %	64 %	64 %
Operation	(Iris)	Manual (Lock screw M2)			
Wavelength		Visible			
Mount		C-Mount			
Flange Back		17.526 mm			
Sensor Size (max.)		1.1″			
Filter Thread		M 40.5 P= 0.5			
Weight (approx.)		210 g			
Dimension		ϕ 47 (max.) × L = 64 mm			
Repeatability in focal power mode		±0.05dpt (small steps) ±0.1dpt (large steps)			
Response (typical at 30℃,0 to +/− 250mA step)		5ms			
Setting time (typical at 30℃,0 to +/− 250mA step)		25ms			
Lifecycles (10%-90% sinuosidal)		>1,000,000,000			

Electrical Specifications

Nominal control current with Lens Driver	− 250 mA to 250 mA
Absolute max. control current	− 500 mA to 500 mA
Power consumption	0W to 0.7W (nominal), 0W to 2.8W (absolute max.)
Voltage for digital circuitry Vcc	3.3V
Serial communication	RS232



Pinning Hirose connector HR10G-7R-6PB(73)

Position	Function	Sensor pins
1	Max. control current +	−
2	Max. control current −	−
3	Gnd	1 − 4
4	Power	8
5	I²C SCL	6
6	I²C SDA	5