Lens specifications

Optics

Image sensor	Effective image area > 6.4mm
Focal distance	4.7±5% ~ 47±5%mm
Aperture	f/1.6~f/2.5
Focus range	• WIDE: 1.0m - infinity • TELE: 1.0m - infinity
Field of view (D=6.6mm)	• WIDE: 71° • TELE: 7.1°
Distortion	• WIDE: -5.2% • TELE: 1.8%

Mechanics

Mechanical back focus	-0.33 (in glass t=0.4 BK7)
Lens zoom structure	The stepper motor is directly connected to the screw
Lens focusing structure	The stepper motor is directly connected to the screw
Lens size	• Length: 59.6mm • Width: 33.7m • Height: 38.7mm • Front end diameter: 34.8mm

Motor specifications

Screw pitch	0.4mm
Spiral rotation direction	Right
Rated voltage	4.5-5.0 VDC
Coil resistance	55Ω ± 10%
Phase count	2
Step angle	18° / step
Max start frequency	800 PPS/min @ at 5.0 VDC

Max operating frequency	1200 PPS/min @ 5.0 VDC
Pull torque	2.8 gf-cm min (at 480 PPS @ 5.0 VDC)
Push torque	3.8 gf-cm min (at 480 PPS @ 5.0 VDC)
Operating temperature range	-10°C ~ +70°C

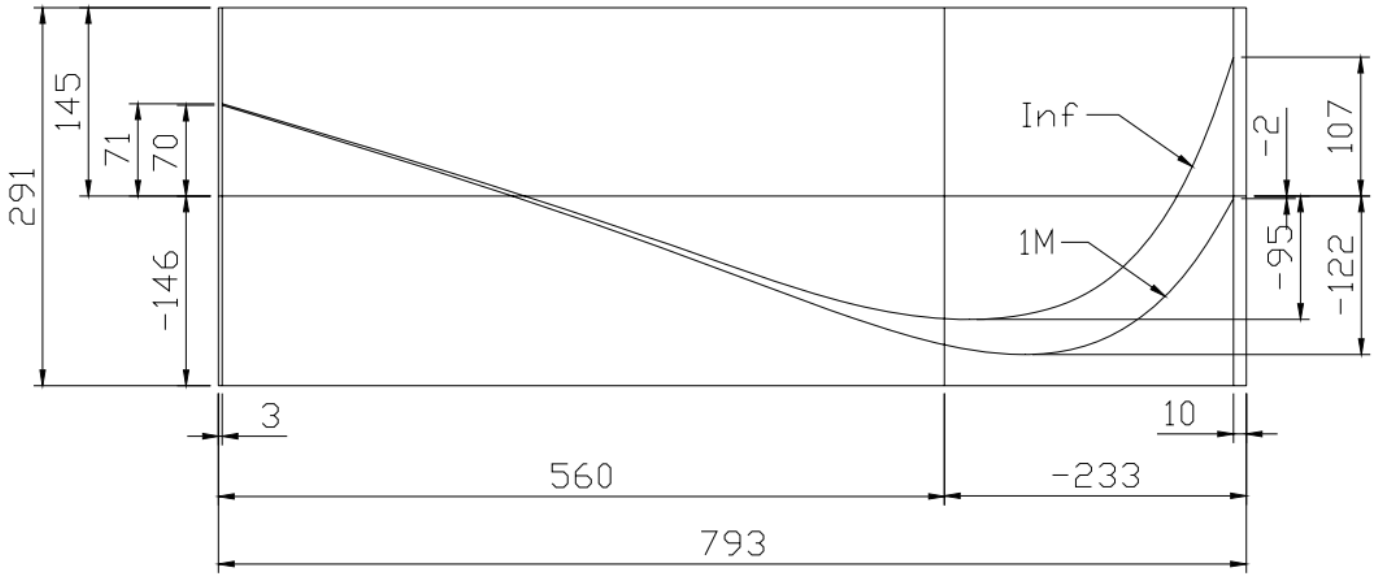
Position alignment sensor PI

Model number	RPI-222 / ROHM

IR switch

Coil resistance	25 ± 5Ω
Operation voltage	4.5V
Current consumption	144~200mA
Switching time	200-500ms
Filters	• Clear glass • 420 ~600nm Tavg >95%

Zoom-Focus curve diagram



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