

Lens specifications

Optics

Image sensor	1/2.8" Effective image area > 6.4mm
Focal distance	5±5% ~ 100±5%mm
Aperture	f/1.6~f/3.7
Focus range	<ul style="list-style-type: none">• WIDE: 1.0m - infinity• TELE: 1.0m - infinity
Field of view (D=6.0mm)	<ul style="list-style-type: none">• WIDE: 66.5°• TELE: 3.38°
Relative contrast	<ul style="list-style-type: none">• WIDE: >35%• TELE: >63%
Distortion	<ul style="list-style-type: none">• WIDE: -9.7%• TELE: 2.1%

Mechanics

Mechanical back focus	-0.92 (in glass t=0.5 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	<ul style="list-style-type: none">• Length: 79.9mm• Width: 46mm• Height: 46mm• Front end diameter: 41.8mm

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	-20°C ~ +70°C

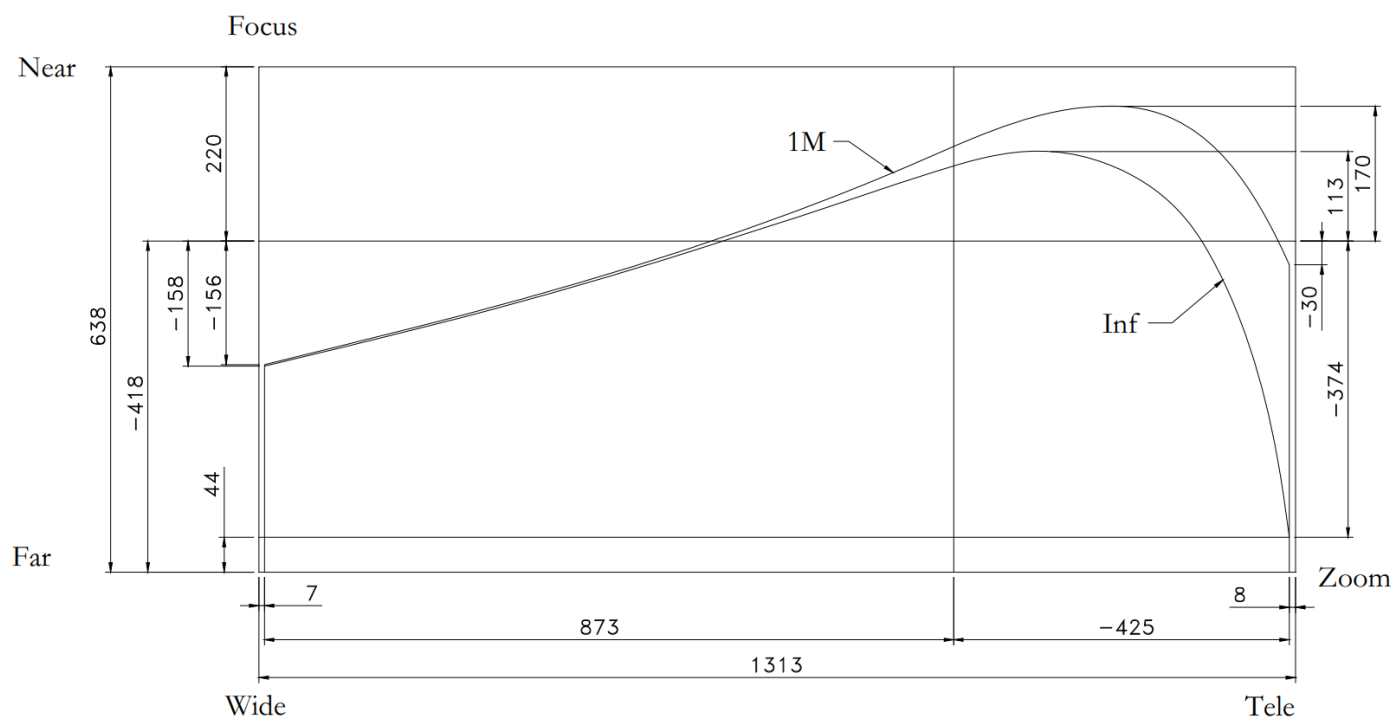
Position alignment sensor PI

Model number	RPI-222 / ROHM
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IR switch

Coil resistance	25 ± 5Ω
Operation voltage	4.5V
Current consumption	144~200mA
Switching time	200-500ms
Filters	<ul style="list-style-type: none"> • Clear glass • 420 ~600nm Tavg >95%

Zoom-Focus curve diagram



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