

Lens specifications

Optics

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|-------------------------|---------------------------------------------------------------------------------------------------------|
| 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 |

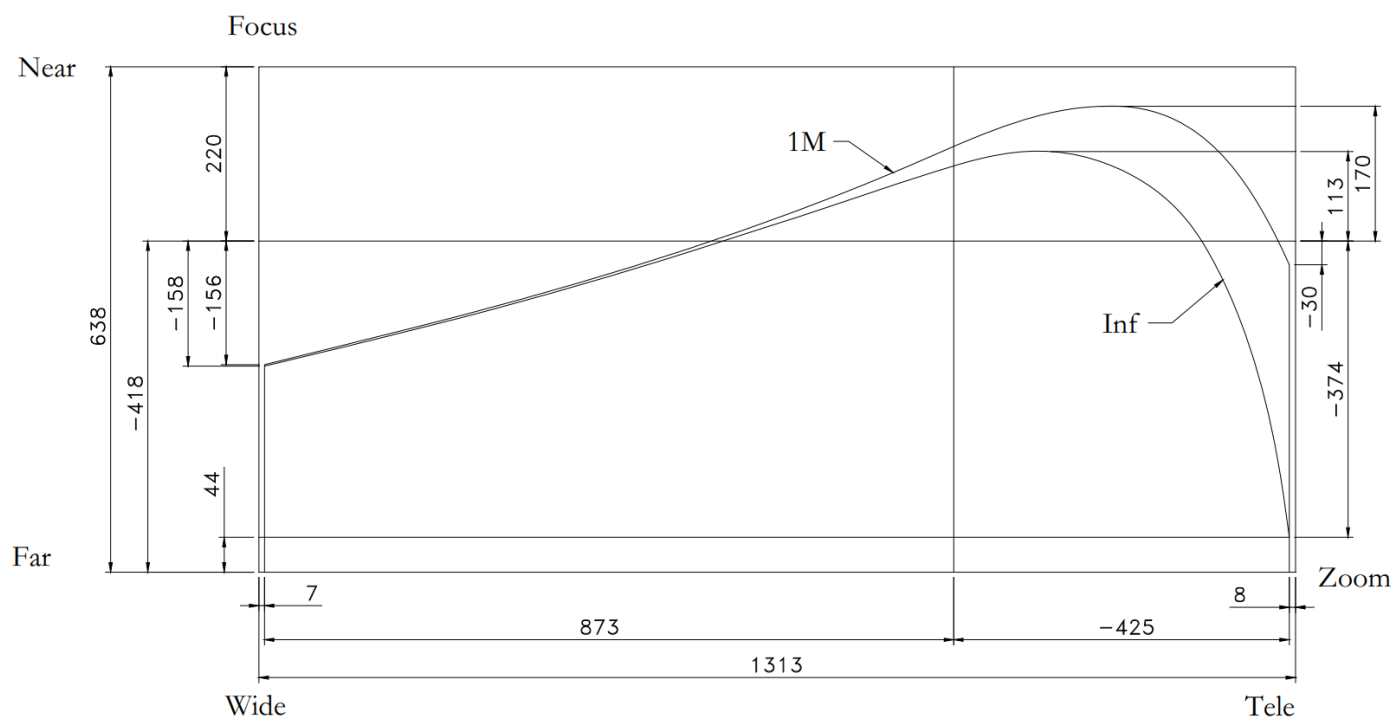
Position alignment sensor PI

| | |
|--------------|----------------|
| Model number | RPI-222 / ROHM |
|--------------|----------------|

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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