# Lens specifications

## Optics

| | |
|---|---|
| Image sensor | 1/2.7" Effective image area > 6.8mm |
| Focal distance | 3.4±5% ~ 10±5%mm |
| Aperture | f/1.7~f/3.0 |
| Focus range | • WIDE: 1.0m - infinity<br>• TELE: 1.0m - infinity |
| Field of view (D=6.6mm) | • WIDE: 129.2°<br>• TELE: 37.6° |
| Relative contrast | • WIDE: >-14%<br>• TELE: >-1.7% |
| Distortion | • WIDE: -9.2%<br>• TELE: 3.2% |

## Mechanics

| | |
|---|---|
| Mechanical back focus | -0.35 (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<br>• Width: 33.7m<br>• Height: 38.7mm<br>• 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 |

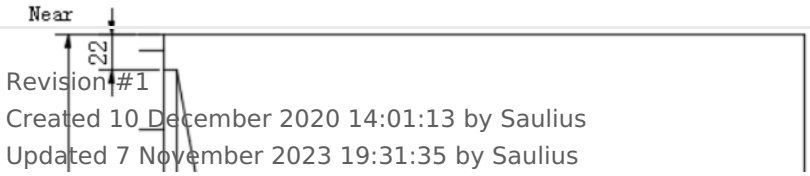
# Position alignment sensor PI

| | |
|---|---|
| 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<br>• 420 ~600nm Tavg >95% |

# Zoom-Focus curve diagram




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