

SCF4-L065-KIT

SCF4 motion controller bundled with D14/CS-mount 5-50mm motorized zoom lens

- [Ordering](#)
- [Overview](#)
- [SCF4 documentation](#)
- [Lens specifications](#)
- [Demo application to control lens](#)

Ordering

SCF4-L065-KIT - Motorized lens kit

Overview

Motorized 5-50mm lens with D14 lens mount. Can be mounted on CS-mount lenses with short back-focal D14 to CS lens adapter. Bundled with dedicated SCF4-M module carrier board.

SCF4 documentation

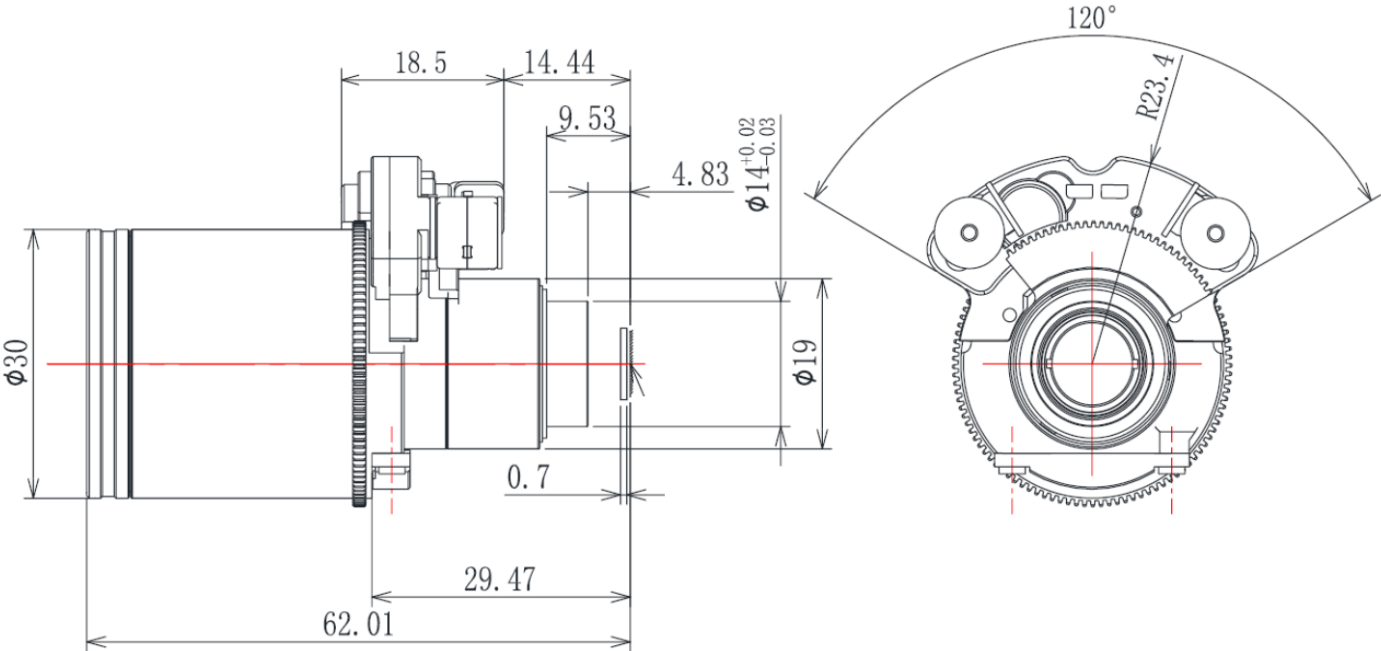
Controller documentation is **[here](#)**

Lens specifications

Specifications

| | |
|-------------------------|---|
| Focal Length | 5-50mm |
| Aperture | f/2.0 |
| Image Size | 1/2.7? |
| Mount Type | D14 |
| Minimum Object Distance | ≥1m |
| Back Focal Length | 6.87mm |
| Operation Mode Iris | Fixed |
| Operation Mode Focus | Stepper motor |
| Operation Mode Zoom | Stepper motor |
| External Dimensions | <ul style="list-style-type: none">• Diameter: 30mm• Length: 52.5mm |
| Weight | 136g |

Drawings



Wiring

| Wire Nr | Wire color | Operation group | Motor signal |
|---------|------------|-----------------|--------------|
|---------|------------|-----------------|--------------|

| | | | |
|---|--------|-------|----|
| 1 | Blue | Focus | A- |
| 2 | Black | Focus | A+ |
| 3 | Green | Zoom | A- |
| 4 | Orange | Zoom | A+ |
| 5 | Yellow | Zoom | B+ |
| 6 | Purple | Zoom | B- |
| 7 | White | Focus | B- |
| 8 | Red | Focus | B+ |

Motor specifications

| | |
|-----------------------------|--------------------------------|
| Step Motor Outside diameter | 8mm |
| Phase count | 2 phase (Bipolar) |
| Coil Resistance | 40? / phase±10% |
| Current | 120-140mA (3.3-5V) |
| Step angle | 18 degrees/step |
| Inductance | 2m H REF(at 25? 1KHZ, 1.0Vrms) |
| Operating temperature | -20? to 60? |
| Zoom range steps | 2342 Steps 0.0076mm/Steps |
| Focus range steps | 2342 Steps 0.0022mm/Steps |

Demo application to control lens

SDK and source code is maintained on [GitHub](#)