SCF4-L065-KIT

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

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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

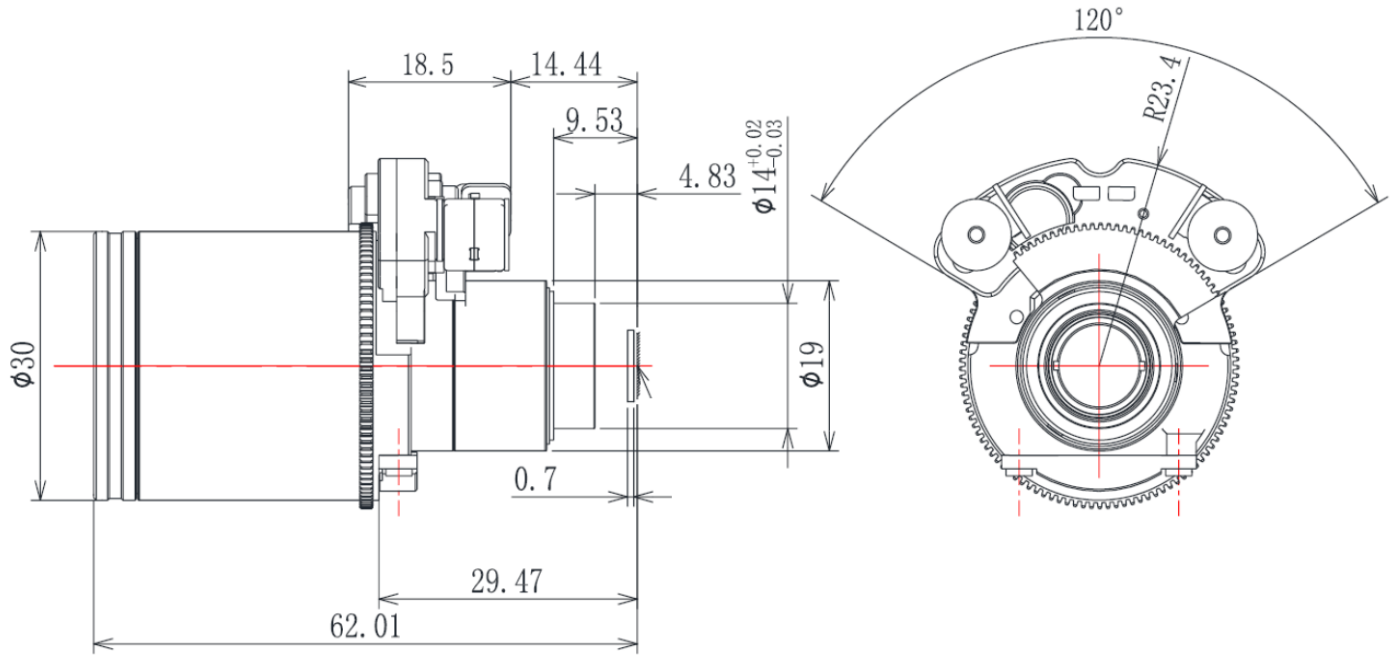
Controller documentation is **here**

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	• 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