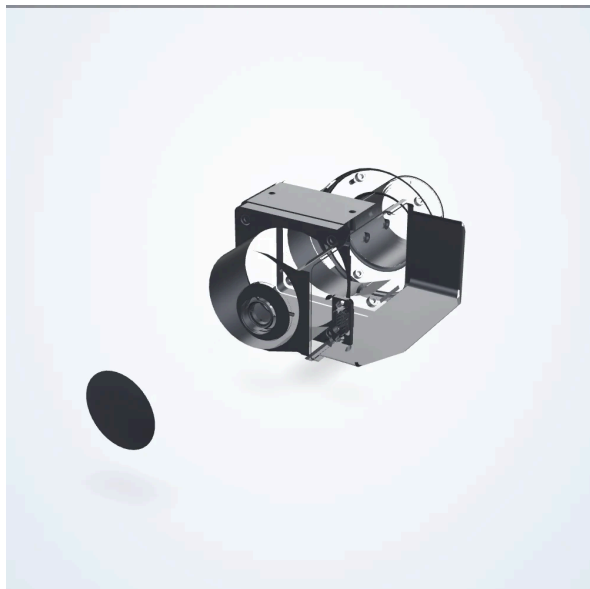


0.25× telecentric lens, 2/3", C-mount

LS-TCL-0449 series · Telecentric lenses · 1 model

Telecentric lens with constant magnification across the depth of field, for measurement and gauging without perspective error.
Connection: db15hd male; working distance 74 mm; depth of field 0.8 mm.
Rendered illustration: the actual product may differ in appearance.



Common specifications

Magnification	0.25×
Working distance	74 mm
Sensor format	2/3"
Mount	C-Mount
Depth of field	0.8 mm
Connector	DB15HD Male
IP rating	IP20
Dimensions approximate	211.5 x 103 x 142 mm
Distortion maximum (%)	< 0.08
Distortion typical (%)	< 0.04
Filter thread	No Filter Threads
Fov @ 1/1.8"	28.52 x 21.32 mm 14.26 x 10.66 mm 7.13 x 5.33 mm 3.57 x 2.67 mm
Fov @ 1/2.0"	25.60 x 19.20 mm 12.80 x 9.60 mm 6.40 x 4.80 mm 3.20 x 2.40 mm
Fov @ 1/2.5"	22.80 x 17.12 mm - 11.40 x 8.56 mm - 5.70 x 4.28 mm - 2.85 x 2.14 mm
Fov @ 1/2"	25.60 x 19.20 mm 12.80 x 9.60 mm 6.40 x 4.80 mm 3.20 x 2.40 mm
Fov @ 1/3.0"	019.20 x 014.40 mm - 009.60 x 007.20 mm - 004.80 x 003.60 mm - 002.40 x 001.80 mm
Fov @ 2/3"	34.00 x 28.36 mm 17.00 x 14.18 mm 8.50 x 7.09 mm 4.25 x 3.55 mm
Front diameter	58 mm
Image circle	11 mm

Installation location	Indoor Use Only
Interface	RS422
Interpolation	500
Lens type	Telecentric
Max image displacement between magnification changes	350 μm
Motor to encoder ratio	2.56
Number of encoders	1
Number of magnetic poles	120
Number of motors	1
Operating relative humidity (%)	10-85 Non Condensing
Operating temperature range	0 to 40°C
Output signals	A, B, Z (Index)
Poles pitch	2 mm
Pulses per revolution	60000
Reference point repeatability	< 6 μm < 5 μm < 2 μm < 4 μm
Resolution (pixel size)	10 μm
Rms winding current	600 mA
Steps per revolution	200
Storage temperature range	0 to 50°C
Supply current maximum	30 mA
Supply voltage	24 Volts
Telecentricity maximum	0.10°
Telecentricity typical	< 0.05°
Time for magnification change maximum	2 Seconds
Time for magnification change minimum	1.5 Seconds
Winding voltage	24 Volts
Working f/n	f/16
Weight	2359 Grams

Models

Model

LS-TCL-0449

Product views

