

1× telecentric lens, 2/3", C-mount

LS-TCL-0428 series · Telecentric lenses · 1 model

Telecentric lens with constant magnification across the depth of field, for measurement and gauging without perspective error.
Connection: hr10a-7r-6pbc; working distance 118.0 - 142.0 mm; depth of field 0.6 mm.
Rendered illustration: the actual product may differ in appearance.



Common specifications

Magnification	1×
Working distance	118.0 - 142.0 mm
Sensor format	2/3"
Mount	C-Mount
Depth of field	0.6 mm
Connector	HR10A-7R-6PBc
Current range	-500 to +500 mA
Dimensions approximate	126 x 37. x 37.7 mm
Distortion maximum (%)	< 0.1
Distortion typical (%)	< 0.05
Filter thread	No Filter Threads
Focal power mode	Yes
Fov @ 1/1.8"	7.13 x 5.33 mm
Fov @ 1/2.0"	6.40 x 4.80 mm
Fov @ 1/2.5"	5.70 x 4.28 mm
Fov @ 1/2"	6.40 x 4.80 mm
Fov @ 1/3.0"	4.80 x 3.60 mm
Fov @ 2/3"	8.50 x 7.09 mm
Front diameter	37.7 mm
Image circle	11 mm

Installation location	Indoor Use Only
Lens type	Telecentric
Lifecycles (10%-90% sinusoidal)	>1,000,000,000
Liquid lens model	EL-16-40
Magnification ranges at -2 dpt to +3 dpt	0.991 - 1.016×
Operating relative humidity (%)	20-85 Non Condensing
Operating temperature range	0 to 40°C
Repeatability using focal power mode (dpt)	±0.05 (small steps); ±0.1 (large steps) (dpt)
Resolution (pixel size)	8 μm
Response time	5 Milliseconds
Setting time	25 Milliseconds
Storage temperature range	0 to 50°C
Telecentricity maximum	0.1°
Telecentricity typical	< 0.08°
Working f/n	f/12
Weight	374 Grams

Models

Model
LS-TCL-0428

Product views

