
vicotar[®] Telecentric Lens - TOB11/11.0-70-F6-WN

Short description:	Bi-Telecentric Lens, C-mount, sensor max. 2/3", aperture F6, W/NIR
Order number:	2-05-504
EAN:	4251692620663



Characteristics

- telecentric measurement objective with object- and image-sided telecentric beam path
 - high resolution, low lateral chromatic aberration, low distortion, low telecentric error
 - color corrected for the visible spectral range and near infrared
 - fixed aperture
 - robust industrial design
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Technical data

Image scale	1
Spectral range	465 nm - 950 nm
Working distance	70.0 mm
Camera distance (object-camera flange)	197 mm
Object field diagonal (max)	11 mm
Sensor format (max)	2/3"
Image field diagonal (max)	11 mm
Suitable for camera resolution	9.3 MPixel
Recommended pixel size	2.5 µm
Aperture	fixed (F6)
Lens mount	C-Mount
Filter thread, object-side	M30.5 x 0.5
Filter thread, camera-side	M20.5 x 0.5
Weight	223 g
Usable object field with:	
• 2/3" sensor (8.8 x 6.6 mm ²)	8.8 mm x 6.6 mm
• 1/1.8" sensor (7.1 x 5.4 mm ²)	7.1 mm x 5.4 mm
• 1/2" sensor (6.4 x 4.8 mm ²)	6.4 mm x 4.8 mm
• 1/3" sensor (4.8 x 3.6 mm ²)	4.8 mm x 3.6 mm

Notices

The lightings combination products shown are a selection. Depending on the application, other colors and light source types can also be used.

Can be combined with

Order number	Title	Description
<i>TZB28-P-SL series</i>		
1-33-230	TZB28-B450-P-SL	telecentric light, blue, If diameter: 28 mm, smart light
1-33-231	TZB28-IR850-P-SL	telecentric light, IR850, If diameter: 28 mm, smart light
<i>TZB28-P-24V series</i>		
1-33-240	TZB28-B450-P-24V	telecentric light, blue, If diameter: 28 mm, 24V, switchable
1-33-284	TZB28-B450-HP-24V	telecentric light, blue, If diameter: 28 mm, 24V, switchable, high power
1-33-241	TZB28-IR850-P-24V	telecentric light, IR850, If diameter: 28 mm, 24V, switchable
1-33-285	TZB28-IR850-HP-24V	telecentric light, IR850, If diameter: 28 mm, 24V, switchable, high power
<i>R-CLR-69-SL series</i>		
1-33-007	R-CLR-69x41-B470-SL	ring light, blue, coaxial, If diameter: 41/69 mm, smart light technology
<i>RK2036-24V series</i>		
1-29-602	RK2036-B470-24V/C	ring light, blue, coaxial, If diameter: 41/69 mm, controlled, pot.: 0-10V,

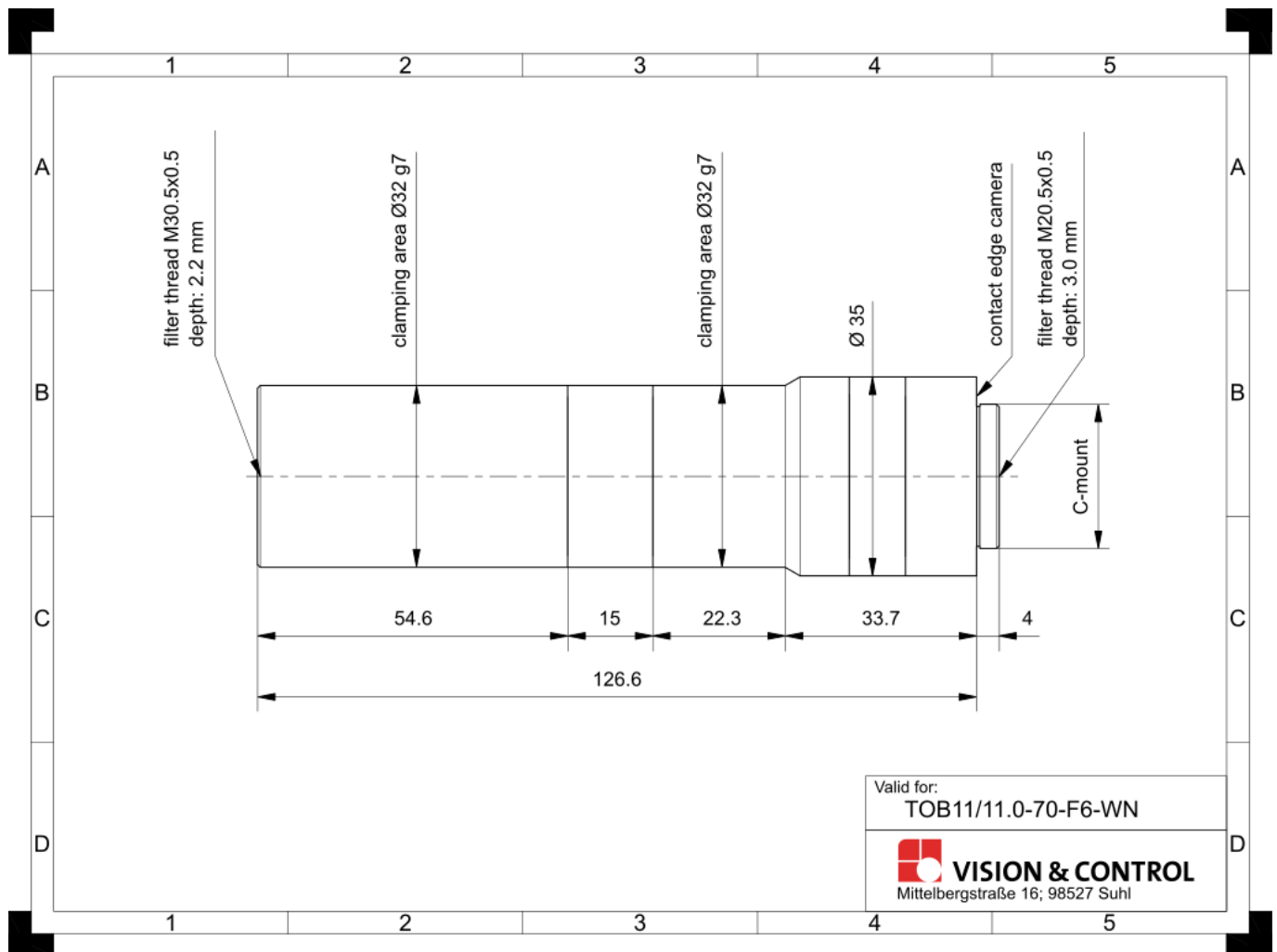
Accessories for Telecentric Lenses - TOB11/11.0-70-F6-WN

Order number	Title	Description
<i>Adjustment Aids</i>		
5-10-110	Adjustment aid 2.7	for easy adjustment to 2.7 mm depth of field, for image scale 1.2 - 0.7
5-10-111	Adjustment aid 5	for easy adjustment to 5 mm depth of field, for image scale 0.7 - 0.5
5-10-112	Adjustment aid 10	for easy adjustment to 10 mm depth of field, for image scale 0.5 - 0.2
5-10-114	Adjustment aid 20	for easy adjustment to 20 mm depth of field, for image scale 0.2 - 0.1

Order number	Title	Description
<i>Lens mount</i>		
2-90-122	Lens Holder d32	Holder for telecentric lenses and lightings with d = 32 mm
<i>Extension tubes</i>		
2-90-415	Extension ring 0.5 mm	26 x 31 x 0.5 reduces the minimum object distance (MOD)
2-90-416	Extension ring 1.0 mm	26 x 31 x 1.0 reduces the minimum object distance (MOD)
<i>Lens adapter c-mount</i>		
2-90-414	CS to C-mount adapter 5.0 mm	for connecting C-mount lenses with CS-mount cameras, length: 5 mm
<i>Neutral density filter</i>		
2-91-257	ND filter 3.0 M30.5x0.5	optical density 3.0 - 0.1% transmission, f-stop reduction 10, filter thread M30.5x0.5
2-91-247	ND filter 1.2 M30.5x0.5	optical density 1.2 - 6.3% transmission, f-stop reduction 4, filter thread M30.5x0.5
2-91-237	ND filter 0.6 M30.5x0.5	optical density 0.6 - 25% transmission, f-stop reduction 2, filter thread M30.5x0.5
<i>Daylight blocking filter</i>		
2-91-131	IR filter M20.5x0.5	long-pass filter from 830 nm, daylight absorbing filter, filter thread M20.5x0.5
2-91-217	IR filter M30.5x0.5	long-pass filter from 830 nm, daylight absorbing filter, filter thread M30.5x0.5
<i>Polarising filters</i>		
2-91-227	Pole filter M30.5x0.5	linear polarizing filter, range 420 nm - 780 nm, filter thread M30.5x0.5
<i>Colour filter blue</i>		
2-91-284	Colour filter blue M30.5x0.5	band-pass filter, range 350 nm - 600 nm, filter thread M30.5x0.5
<i>UV Cut-Off Filter</i>		
2-91-207	UV blocking filter M30.5x0.5	long-pass filter from 350 nm, usable as protective glass, filter thread M30.5x0.5

Order number	Title	Description
Colour filter red		
2-91-259	Colour filter red M20.5x0.5	long-pass filter from 630 nm, red, filter thread M20.5x0.5
2-91-267	Colour filter red M30.5x0.5	long-pass filter from 630 nm, red, filter thread M30.5x0.5
Colour filter green		
2-91-297	Colour filter green M30.5x0.5	band-pass filter, range 430 nm - 620 nm, filter thread M30.5x0.5
Colour filter yellow		
2-91-271	Colour filter yellow M30.5x0.5	long-pass filter from 530 nm, yellow, filter thread M30.5x0.5
Deflection mirror 90° series		
2-25-113	Deflection mirror 90-32	90° deflection, attachment for telecentric lenses and lightings with d = 32 mm
Adapters for attaching lights to lenses		
1-29-671	Adapter ring d41 - M30.5x0.5	for R-CLR-69x41 and RK2036, for attachment to lenses with filter thread M30.5x0.5
Beam splitter STE30x30		
1-18-050	STE30x30-VIS	Beam splitter unit for coaxial light system, optimized for 450-700 nm
1-18-022	Adapter STE30x30 - TZO32	Attachment of the STE30x30 to telecentric lenses and lightings with d = 32 mm

Drawings



Dimensional drawing in mm