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## vicotar® Telecentric Lens - TO30/4.3-100-F8-BW-RF

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<b>Short description:</b>	Telecentric Lens, C-mount, sensor opt. 1/4", aperture F8, vibration-proof, blue
<b>Order number:</b>	2-05-551
<b>EAN:</b>	4251692621028



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### Characteristics

- telecentric measurement objective with object-sided telecentric beam path
  - color corrected for the visible spectral range and near infrared
  - color correction extended deep into the blue spectral range
  - very well suited for blue LEDs including "Deep Blue" LEDs
  - thus especially suitable for white LEDs, as these have a strong blue light component
  - high resolution, low lateral chromatic aberration, low distortion, low telecentric error
  - fixed aperture
  - robust industrial design
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## Technical data

Image scale	0.144
Spectral range	450 nm - 950 nm
Working distance	100.0 mm
Camera distance (object-camera flange)	192 mm
Object field diagonal (max.)	30 mm
Sensor format (opt.)	1/4"
Image field diagonal (max.)	4.3 mm
Suitable for camera resolution	1.9 MPixel
Recommended pixel size	2 $\mu$ m
Aperture	fixed (F8)
Lens mount	C-Mount
Filter thread, object-side	M39 x 0.5 - depth: 7.2 mm
Weight	131 g
Usable object field with:	
• 1/4" sensor (3.4 x 2.2 mm <sup>2</sup> )	25.96 mm x 16.83 mm

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## Notices

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

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## Can be combined with

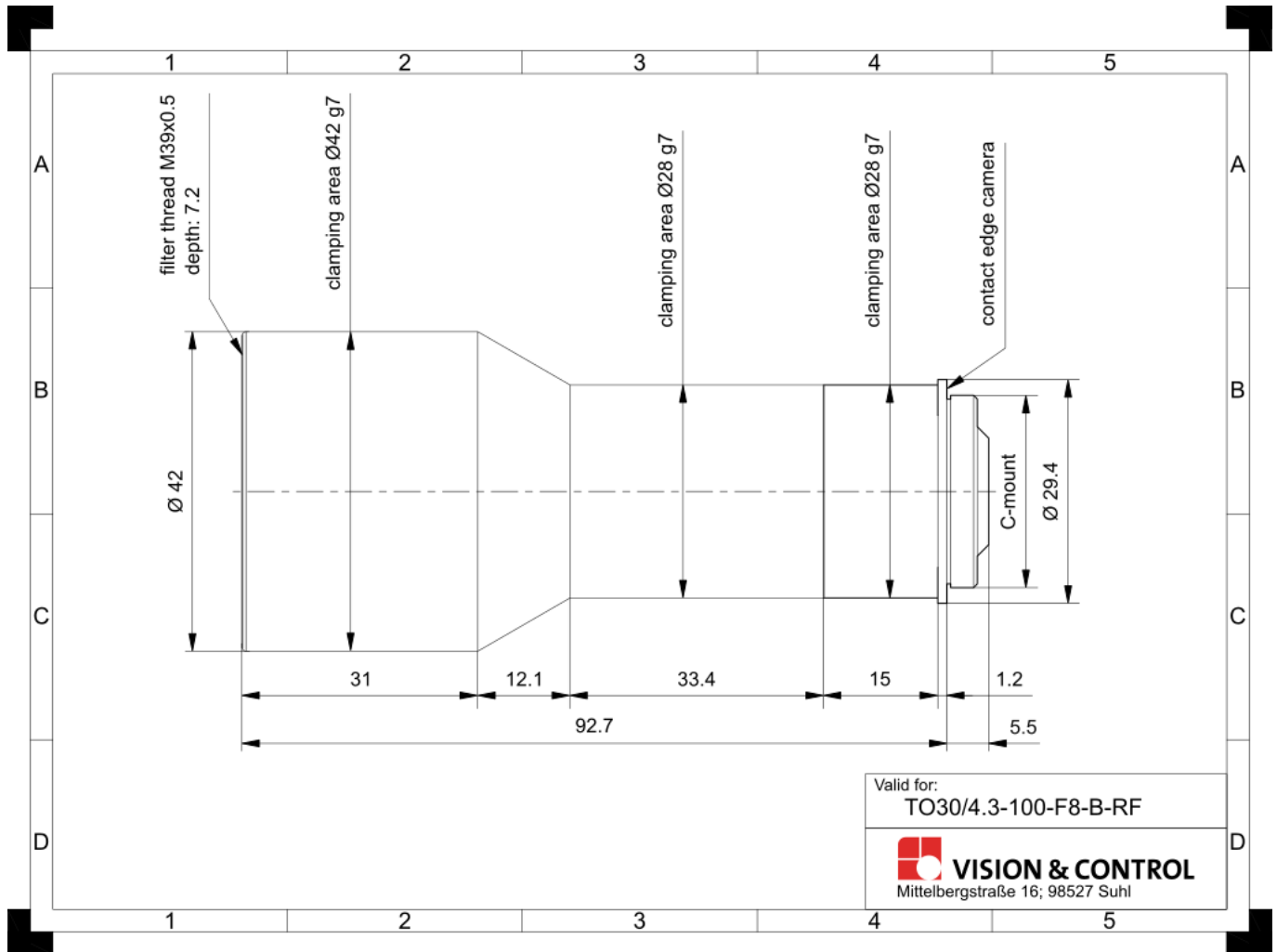
Order number	Title	Description
<b><i>pictor N4xx</i></b>		
3-12-500	pictor N403M-ETH	smart camera, ethernet, 1/4" CMOS, 736x480, mono, 120fps, incl. software vcwin
3-12-501	pictor N403C-ETH	smart camera, ethernet, 1/4" CMOS, 736x480, color, 120fps, incl. software vcwin
<b><i>TZB38-P-SL series</i></b>		
1-33-232	TZB38-B450-P-SL	telecentric light, blue, lf diameter: 38 mm, smart light
1-33-233	TZB38-IR850-P-SL	telecentric light, IR850, lf diameter: 38 mm, smart light
<b><i>TZB38-P-24V series</i></b>		
1-33-242	TZB38-B450-P-24V	telecentric light, blue, lf diameter: 38 mm, 24V, switchable
1-33-286	TZB38-B450-HP-24V	telecentric light, blue, lf diameter: 38 mm, 24V, switchable, high power
1-33-243	TZB38-IR850-P-24V	telecentric light, IR850, lf diameter: 38 mm, 24V, switchable
1-33-287	TZB38-IR850-HP-24V	telecentric light, IR850, lf diameter: 38 mm, 24V, switchable, high power
<b><i>R-CLR-69-SL series</i></b>		
1-33-007	R-CLR-69x41-B470-SL	ring light, blue, coaxial, lf diameter: 41/69 mm, smart light technology
<b><i>RK2036-24V series</i></b>		
1-29-602	RK2036-B470-24V/C	ring light, blue, coaxial, lf diameter: 41/69 mm, controlled, pot.: 0-10V,
<b><i>R-CLR-100-SL series</i></b>		
1-33-012	R-CLR-100x73-B470-SL	ring light, blue, coaxial, lf diameter: 73/100 mm, smart light technology
<b><i>RK3652-24V series</i></b>		
1-29-702	RK3652-B470-24V/C	ring light, blue, coaxial, lf diameter: 73/100 mm, controlled, pot.: 0-10V,

## Accessories for Telecentric Lenses - TO30/4.3-100-F8-BW-RF

Order number	Title	Description
<b>Adjustment Aids</b>		
5-10-114	Adjustment aid 20	for easy adjustment to 20 mm depth of field, for image scale 0.2 - 0.1
<b>Lens mount</b>		
2-90-138	Lens Holder d28	Holder for telecentric lenses and lightings with d = 28 mm
<b>Extension tubes</b>		
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)
2-90-419	Extension ring 0.1 mm	25.5 x 29 x 0.1 reduces the minimum object distance (MOD)
2-90-420	Extension ring 0.2 mm	25.5 x 29 x 0.2 reduces the minimum object distance (MOD)
<b>Thread adapter c-mount</b>		
5-00-011	Thread adapter C-Mount-M42	Adapter for mounting of lenses with C-mount on cameras with M42x1 mount
2-90-414	CS to C-mount adapter 5.0 mm	for connecting C-mount lenses with CS-mount cameras, length: 5 mm
<b>Neutral density filter</b>		
2-91-160	ND filter 1.2 M39x0.5	optical density 1.2 - 6.3% transmission, f-stop reduction 4, filter thread M39x0.5
2-91-150	ND filter 0.6 M39x0.5	optical density 0.6 - 25% transmission, f-stop reduction 2, filter thread M39x0.5
<b>Daylight blocking filter</b>		
2-91-130	IR filter M39x0.5	long-pass filter from 830 nm, daylight absorbing filter, filter thread M39x0.5
<b>Polarising filters</b>		
2-91-140	Pole filter M39x0.5	linear polarizing filter, range 420 nm - 780 nm, filter thread M39x0.5
<b>Colour filter blue</b>		

<b>Order number</b>	<b>Title</b>	<b>Description</b>
2-91-287	Colour filter blue M39x0.5	band-pass filter, range 350 nm - 600 nm, filter thread M39x0.5
<b>UV Cut-Off Filter</b>		
2-91-120	UV blocking filter M39x0.5	long-pass filter from 350 nm, usable as protective glass, filter thread M39x0.5
<b>Colour filter red</b>		
2-91-261	Colour filter red M39x0.5	long-pass filter from 630 nm, red, filter thread M39x0.5
<b>Colour filter green</b>		
2-91-300	Colour filter green M39x0.5	band-pass filter, range 430 nm - 620 nm, filter thread M39x0.5
<b>Colour filter yellow</b>		
2-91-274	Colour filter yellow M39x0.5	long-pass filter from 530 nm, yellow, filter thread M39x0.5
<b>Deflection mirror 90° series</b>		
2-25-114	Deflection mirror 90-42	90° deflection, attachment for telecentric lenses and lightings with d = 42 mm
<b>Adapters for attaching lights to lenses</b>		
1-29-674	Adapter ring d41 - M39x0.5	for R-CLR-69x41 and RK2036, for attachment to lenses with filter thread M39x0.5
1-29-771	Adapter ring d73 - M39x0.5	for R-CLR-100x73 und RK3652, for attachment to lenses with filter thread M39x0.5
<b>Beam splitter STE30x30</b>		
1-18-050	STE30x30-VIS	Beam splitter unit for coaxial light system, optimized for 450-700 nm
1-18-025	Adapter STE30x30 - TZ042	Attachment of the STE30x30 to telecentric lenses and lightings with d = 42 mm

## Drawings



Dimensional drawing in mm