
vicotar® Telecentric Lens - TO30/6.0-100-F10-BW-RF

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|---------------------------|--|
| Short description: | Telecentric Lens, C-mount, sensor max. 1/3", aperture F8, vibration-proof, blue |
| Order number: | 2-05-552 |
| EAN: | 4251692621035 |



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

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|--|---------------------------|
| Image scale | 0.202 |
| Spectral range | 450 nm - 950 nm |
| Working distance | 100.0 mm |
| Camera distance (object-camera flange) | 197.5 mm |
| Object field diagonal (max) | 30 mm |
| Sensor format (max) | 1/3" |
| Image field diagonal (max) | 6 mm |
| Suitable for camera resolution | 4.3 MPixel |
| Recommended pixel size | 2 μ m |
| Aperture | fixed (F10) |
| Lens mount | C-Mount |
| Filter thread, object-side | M39 x 0.5 - depth: 7.2 mm |
| Weight | 139 g |
| Usable object field with: | |
| • 1/3" sensor (4.8 x 3.6 mm ²) | 23.8 mm x 17.8 mm |
| • 1/4" sensor (3.4 x 2.2 mm ²) | 16.8 mm x 10.9 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>TZB38-P-SL series</i> | | |
| 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 |
| <i>TZB38-P-24V series</i> | | |
| 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 |
| <i>R-CLR-69-SL series</i> | | |
| 1-33-007 | R-CLR-69x41-B470-SL | ring light, blue, coaxial, lf diameter: 41/69 mm, smart light technology |
| <i>RK2036-24V series</i> | | |
| 1-29-602 | RK2036-B470-24V/C | ring light, blue, coaxial, lf diameter: 41/69 mm, controlled, pot.: 0-10V, |
| <i>R-CLR-100-SL series</i> | | |
| 1-33-012 | R-CLR-100x73-B470-SL | ring light, blue, coaxial, lf diameter: 73/100 mm, smart light technology |
| <i>RK3652-24V series</i> | | |
| 1-29-702 | RK3652-B470-24V/C | ring light, blue, coaxial, lf diameter: 73/100 mm, controlled, pot.: 0-10V, |

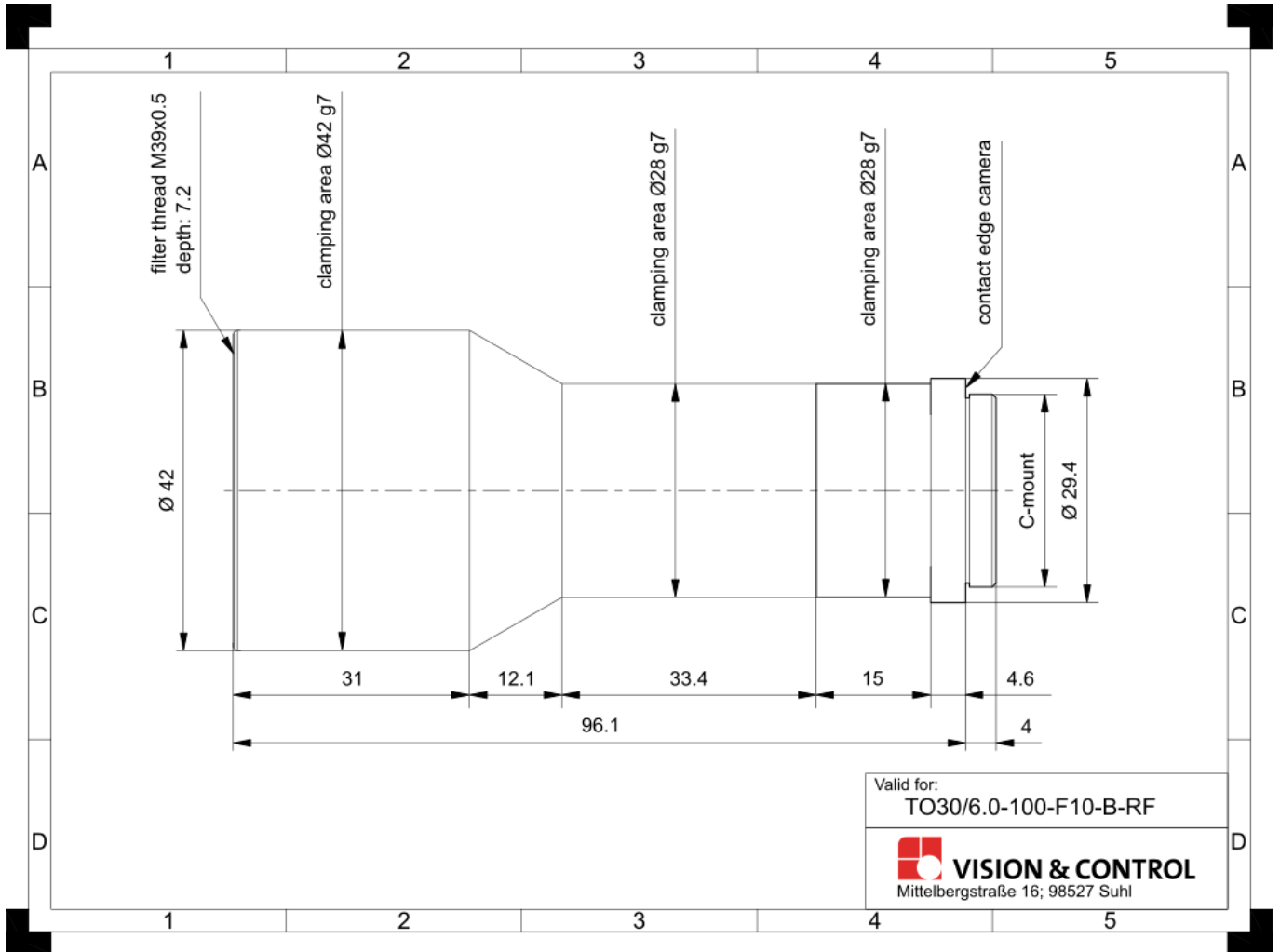
Accessories for Telecentric Lenses - TO30/6.0-100-F10-BW-RF

| Order number | Title | Description |
|-------------------------------|-------|-------------|
| <i>Adjustment Aids</i> | | |

| Order number | Title | Description |
|---------------------------------|------------------------------|--|
| 5-10-114 | Adjustment aid 20 | for easy adjustment to 20 mm depth of field, for image scale 0.2 - 0.1 |
| Lens mount | | |
| 2-90-138 | Lens Holder d28 | Holder for telecentric lenses and lightings with d = 28 mm |
| Extension tubes | | |
| 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) |
| Lens adapter c-mount | | |
| 2-90-414 | CS to C-mount adapter 5.0 mm | for connecting C-mount lenses with CS-mount cameras, length: 5 mm |
| Neutral density filter | | |
| 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 |
| Daylight blocking filter | | |
| 2-91-130 | IR filter M39x0.5 | long-pass filter from 830 nm, daylight absorbing filter, filter thread M39x0.5 |
| Polarising filters | | |
| 2-91-140 | Pole filter M39x0.5 | linear polarizing filter, range 420 nm - 780 nm, filter thread M39x0.5 |
| Colour filter blue | | |
| 2-91-287 | Colour filter blue M39x0.5 | band-pass filter, range 350 nm - 600 nm, filter thread M39x0.5 |
| UV Cut-Off Filter | | |

| Order number | Title | Description |
|--|------------------------------|--|
| 2-91-120 | UV blocking filter M39x0.5 | long-pass filter from 350 nm, usable as protective glass, filter thread M39x0.5 |
| Colour filter red | | |
| 2-91-261 | Colour filter red M39x0.5 | long-pass filter from 630 nm, red, filter thread M39x0.5 |
| Colour filter green | | |
| 2-91-300 | Colour filter green M39x0.5 | band-pass filter, range 430 nm - 620 nm, filter thread M39x0.5 |
| Colour filter yellow | | |
| 2-91-274 | Colour filter yellow M39x0.5 | long-pass filter from 530 nm, yellow, filter thread M39x0.5 |
| Deflection mirror 90° series | | |
| 2-25-114 | Deflection mirror 90-42 | 90° deflection, attachment for telecentric lenses and lightings with d = 42 mm |
| Adaptors for attaching lights to lenses | | |
| 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 |
| Beam splitter STE30x30 | | |
| 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