

## vicotar® Blue Vision TO18 series

compact, robust, precise - telecentric measuring lenses optimized for the blue spectral range



### Product Characteristics:

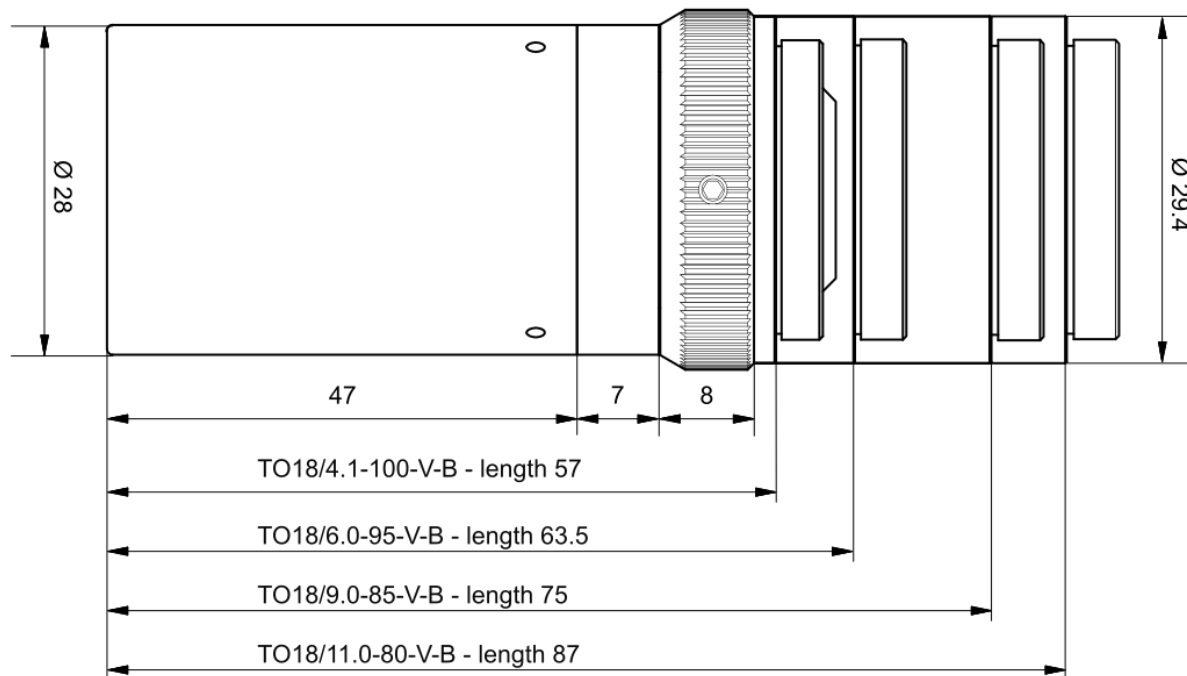
- Special colour correction for the blue spectrum - this almost doubles the image sharpness compared to the use of red light
- Also useable for the entire visible spectrum (450-660 nm)
- Available in the variants "variable aperture" and "ruggedized" (with fixed aperture)
  - fixed aperture - for special requirements with vibrations or movements - e.g. for robot applications
  - variable aperture - to optimally set resolution and depth of field for the application

## Technical information:

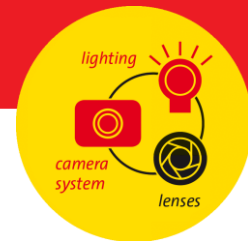
|                       | Image scale | Spectral range | Sensor size (max) | Object field diagonal (max) | Working distance | Aperture  | Resolution class | Pixel size (min) | Order number |
|-----------------------|-------------|----------------|-------------------|-----------------------------|------------------|-----------|------------------|------------------|--------------|
| TO18/4.1-100-V-B      | 0.232       | 450-660 nm     | 1/4"              | 18 mm                       | 100 mm           | F6 - F22  | 5 MPixel         | 3.45 µm          | 2-05-535     |
| TO18/4.1-100-F6-B-RF  |             |                |                   |                             |                  | F6        |                  |                  | 2-05-539     |
| TO18/4.1-100-F14-B-RF |             |                |                   |                             |                  | F14       |                  |                  | 2-05-543     |
| TO18/6.0-95-V-B       | 0.334       | 450-660 nm     | 1/3"              | 18 mm                       | 95 mm            | F8 - F22  | 5 MPixel         | 3.45 µm          | 2-05-536     |
| TO18/6.0-95-F8-B-RF   |             |                |                   |                             |                  | F8        |                  |                  | 2-05-540     |
| TO18/6.0-95-F14-B-RF  |             |                |                   |                             |                  | F14       |                  |                  | 2-05-544     |
| TO18/9.0-85-V-B       | 0.5         | 450-660 nm     | 1/1.8"            | 18 mm                       | 85 mm            | F8 - F22  | 5 MPixel         | 3.45 µm          | 2-05-537     |
| TO18/9.0-85-F10-B-RF  |             |                |                   |                             |                  | F10       |                  |                  | 2-05-541     |
| TO18/9.0-85-F14-B-RF  |             |                |                   |                             |                  | F14       |                  |                  | 2-05-545     |
| TO18/11.0-80-V-B      | 0.616       | 450-660 nm     | 2/3"              | 18 mm                       | 80 mm            | F10 - F22 | 5 MPixel         | 3.45 µm          | 2-05-538     |
| TO18/11.0-80-F10-B-RF |             |                |                   |                             |                  | F10       |                  |                  | 2-05-542     |
| TO18/11.0-80-F14-B-RF |             |                |                   |                             |                  | F14       |                  |                  | 2-05-546     |

## Dimensions:

using the example of lenses with variable aperture\*



\* Fixed aperture variants have identical dimensions. By eliminating the aperture ring, the diameter at this point is reduced from 30.5 mm to 28 mm.



## vicotar® Blue Vision TO30 series

compact, robust, precise - telecentric measuring lenses optimized for the blue spectral range



### Product Characteristics:

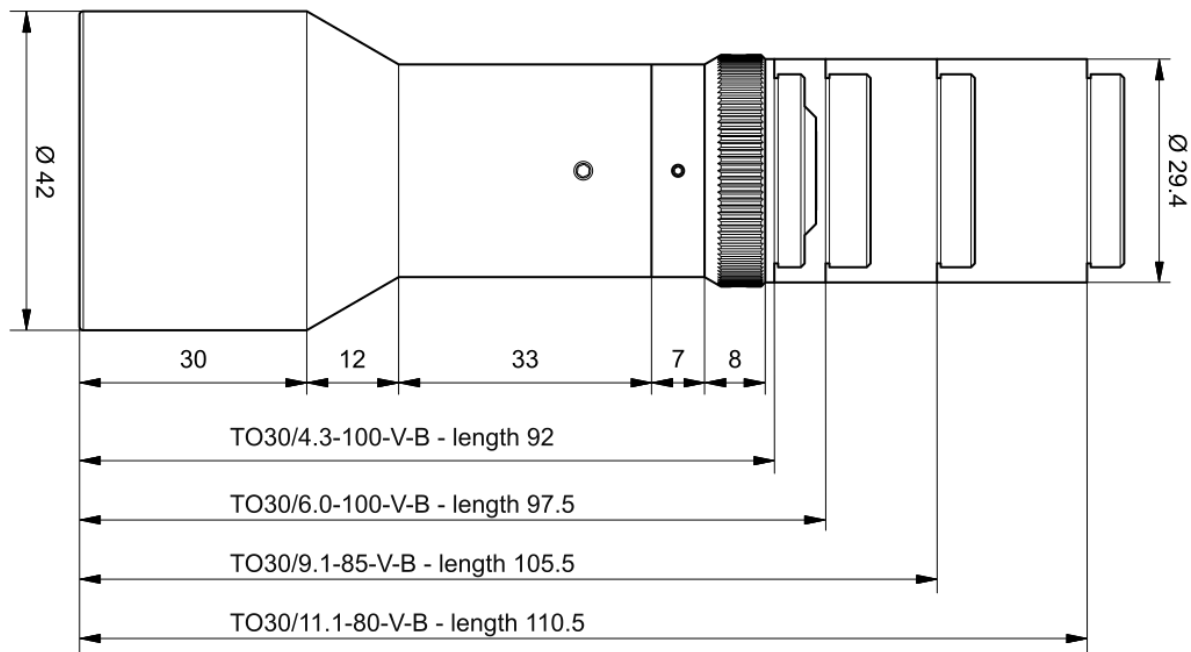
- Special colour correction for the blue spectrum - this almost doubles the image sharpness compared to the use of red light
- Also useable for the entire visible spectrum (450-660 nm)
- Available in the variants "variable aperture" and "ruggedized" (with fixed aperture)
  - fixed aperture - for special requirements with vibrations or movements - e.g. for robot applications
  - variable aperture - to optimally set resolution and depth of field for the application

## Technical Information:

|                       | Image scale | Spectral range | Sensor size (max) | Object field diagonal (max) | Working distance | Aperture  | Resolution class | Pixel size (min) | Order-No. |
|-----------------------|-------------|----------------|-------------------|-----------------------------|------------------|-----------|------------------|------------------|-----------|
| TO30/4.3-100-V-B      | 0.146       | 450-660 nm     | 1/4"              | 30 mm                       | 100 mm           | F8 - F22  | 5 MPixel         | 3.45 µm          | 2-05-547  |
| TO30/4.3-100-F8-B-RF  |             |                |                   |                             |                  | F8        |                  |                  | 2-05-551  |
| TO30/4.3-100-F14-B-RF |             |                |                   |                             |                  | F14       |                  |                  | 2-05-555  |
| TO30/6.0-100-V-B      | 0.202       | 450-660 nm     | 1/3"              | 30 mm                       | 100 mm           | F10 - F22 | 5 MPixel         | 3.45 µm          | 2-05-548  |
| TO30/6.0-100-F10-B-RF |             |                |                   |                             |                  | F10       |                  |                  | 2-05-552  |
| TO30/6.0-100-F14-B-RF |             |                |                   |                             |                  | F14       |                  |                  | 2-05-556  |
| TO30/9.1-85-V-B       | 0.308       | 450-660 nm     | 1/1.8"            | 30 mm                       | 85 mm            | F10 - F22 | 5 MPixel         | 3.45 µm          | 2-05-549  |
| TO30/9.1-85-F10-B-RF  |             |                |                   |                             |                  | F10       |                  |                  | 2-05-553  |
| TO30/9.1-85-F14-B-RF  |             |                |                   |                             |                  | F14       |                  |                  | 2-05-557  |
| TO30/11.1-80-V-B      | 0.374       | 450-660 nm     | 2/3"              | 30 mm                       | 80 mm            | F10 - F22 | 5 MPixel         | 3.45 µm          | 2-05-550  |
| TO30/11.1-80-F10-B-RF |             |                |                   |                             |                  | F10       |                  |                  | 2-05-551  |
| TO30/11.1-80-F14-B-RF |             |                |                   |                             |                  | F14       |                  |                  | 2-05-585  |

## Dimensions:

using the example of lenses with variable aperture\*



\* Fixed aperture variants have identical dimensions. By eliminating the aperture ring, the diameter at this point is reduced from 30.5 mm to 28 mm.