

# Macro lens

#### Componon 4.0/28-0012

For future tasks in industrial optics, the goal of Schneider-Kreuznach is to continue this tradition with modern, high-quality lenses in the field of digital applications. These lenses in their robust plastic housings are a good solution when using large linear and area sensors in a wide range of applications. A far-reaching and sophisticated optical design with constantly high manufacturing quality is a matter of course. The excellent optical coatings were designed specially for the glass types used. This ensures that the lens is optimally attuned to its application area. Flexible use due to the wide magnification range and the high optical quality with its logically limited starting aperture, low chromatic aberration and optimisation at small imaging distances all combine to make these lenses unique.



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#### **Key Features**

- Excellent optical imaging performance when using large sensors
- 100% quality control guarantees reliability and constant quality
- Low maintenance requirements, therefore high system reliability

#### Applications

- Machine Vision and other imaging applications
- PCB inspection
- LCD inspection
- OLED inspection
- Solar inspection

#### **Technical Specifications**

Focal length29.3 mmImage circle30.0 mmMagnification0.05 - 0.04Transmission400 - 700 nmInterfaceLeica-MountWeight90 gr.OptionOptical filter	F-number	4.0
Image circle30.0 mmMagnification0.05 - 0.04Transmission400 - 700 nmInterfaceLeica-MountWeight90 gr.	Focal length	29.3 mm
Magnification0.05 - 0.04Transmission400 - 700 nmInterfaceLeica-MountWeight90 gr.		30.0 mm
Interface Leica-Mount Weight 90 gr.	Magnification	1
Weight 90 gr.	Transmission	400 - 700 nm
	Interface	Leica-Mount
	Weight	90 gr.

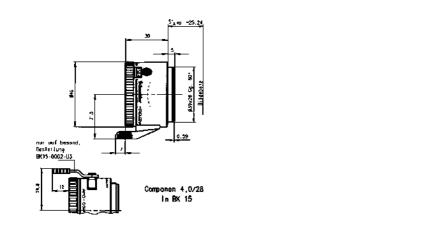
#### Contact

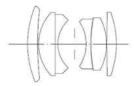
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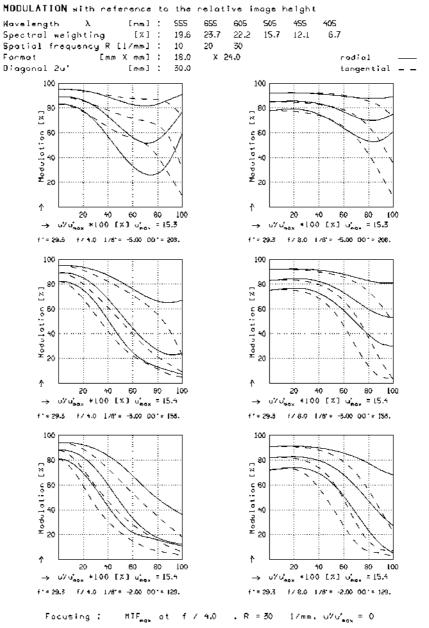
# Componon 4.0/28





COM	PON	ION	4.0/2	28			
f'	=	29.3	mm	ßŕ	=	1.049	
sF	= •	-16.3	ጠብ	SEP	=	11.6 mm	
sŕ.	=	20.8	ሰብ	SAP	=	-9.9 mm	
нн.	=	-2.9	ሰብ	Σđ	=	18.5 mm	

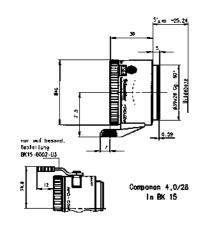
### COMPONON 4.0/28

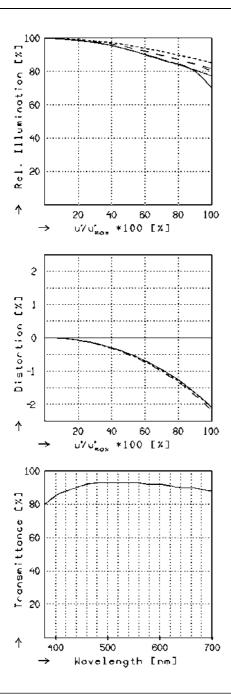


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# Componon 4.0/28





COM	P0	NON	4.(	0/28			
f۰	=	29.3	mm	ßŕ	=	1.049	
SF	=	-16.3	ጠጠ	SEP	=	11 <b>.</b> 6 m	m
sŕ.	=	20.8	ሰሰ	SAP	=	-9.9 m	a).
нн.	=	-2.9	ሰሰ	Σđ	=	18.5 m	m

## RELATIVE ILLUMINATION

The relativ illumination is shown for the given focal distances or magnifications,

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f/4.0 f/8.0
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β' = −0.2000	u <sub>max</sub> = 15.0	00'= 208.	
— — ß* = −0.3333	$u_{max}^{*} = 15.0$	00*= 153.	
β* = −0.5000	$u_{max}^{*} = 15.0$	00'= 129.	

### DISTORTION

Distortion is shown for the given focal distances or magnifications. Positive values indicate pincushion distortion and negative values barrel distortion.

ß' = −0.2000	$u_{max}' = (5.0)$	00'=	208.
— — ß`= −0.3333	$u_{max}^{*} = 15.0$	00'=	153.
ß' = -0.5000	$u_{mox}^{*} = 15.0$	00°=	129.

### TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.



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