

DATA SHEET

PRODUCT CODE: 166-1X5X-3H

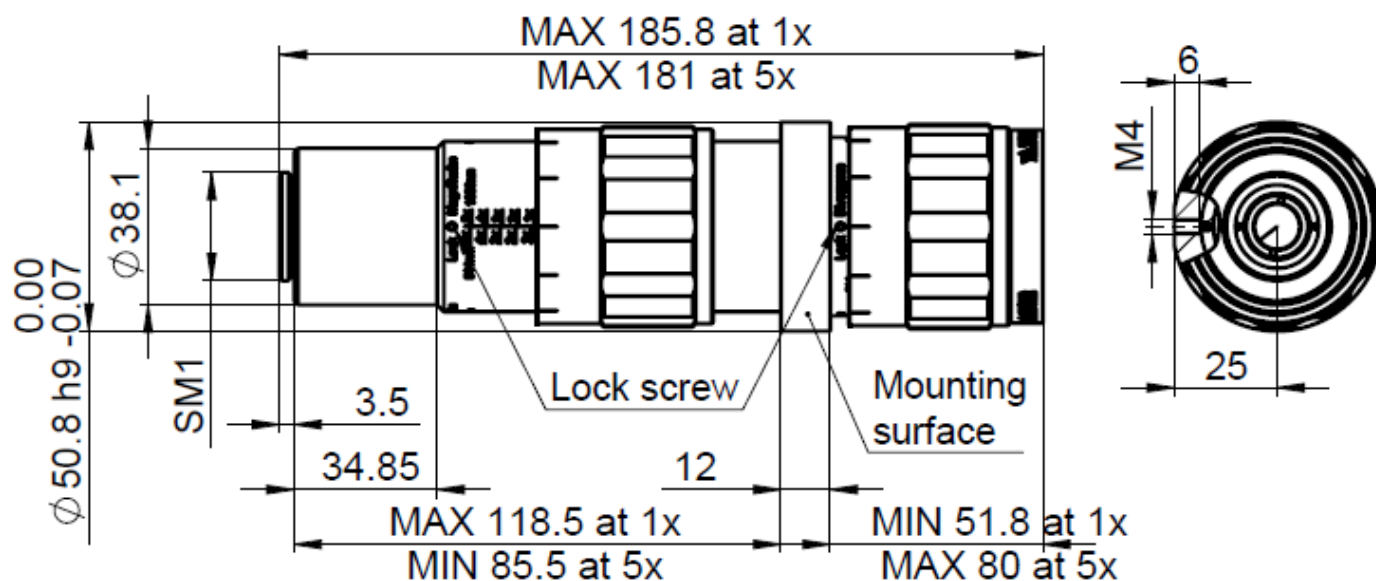
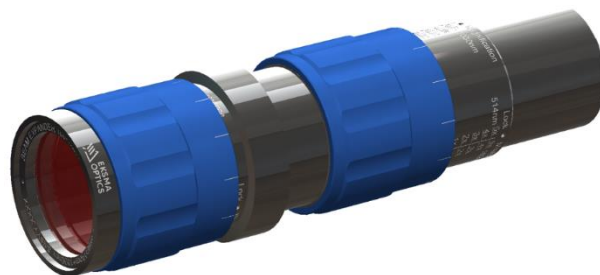
Zoom BEX

Magnification 1x-5x

Wavelength:

343-355 nm

Fused silica



DATA SHEET

PRODUCT CODE: 166-1X5X-3H

SPECIFICATIONS:

Parameter	Value				
Magnification	1x-5x				
Wavelength (nm)	343 nm				
Diffraction-limited input beam diameter @ 343 nm (by design) (mm)	7				
Output beam diameter (mm)	1x	2x	3x	4x	5x
	7	14	21	28	35
Input clear aperture diameter (mm)	11				
Output clear aperture diameter (mm)	36				
Total lens thickness (mm)	8.75				
GDD (fs ²)	1081				
Input impulse duration (fs)	67				
Output impulse duration (fs)	81				
Relative pulse broadening (%)	20				
Wavefront distortion	$\lambda/4@632.8\text{nm}$				
AR coating, single surface	AR<0.2% @ 343-355 nm AOI 0-20 deg.				
Typical transmission	>98,5%				
AR coating LIDT	>0.1 J/cm ² @ 343 nm, 200 fs, 1 kHz >5 J/cm ² @ 355 nm, 10ns, 100Hz				
Reverse usage	No				
Mounting					
Input thread	SM1 external				
Mounting options	SM1 external, Ø38.1, Ø50.8, M4				
Size, mm	Ø50.8x186				

Other:

• Divergence adjustable design • No back reflection focusing outside	• Can not be used as beam reducer
---	---

Mounting suggestions:

Mounting of 5-axis platform	Mounting on 4/axis kinematic holder (840-0209)	Mounting on M6 thread
		