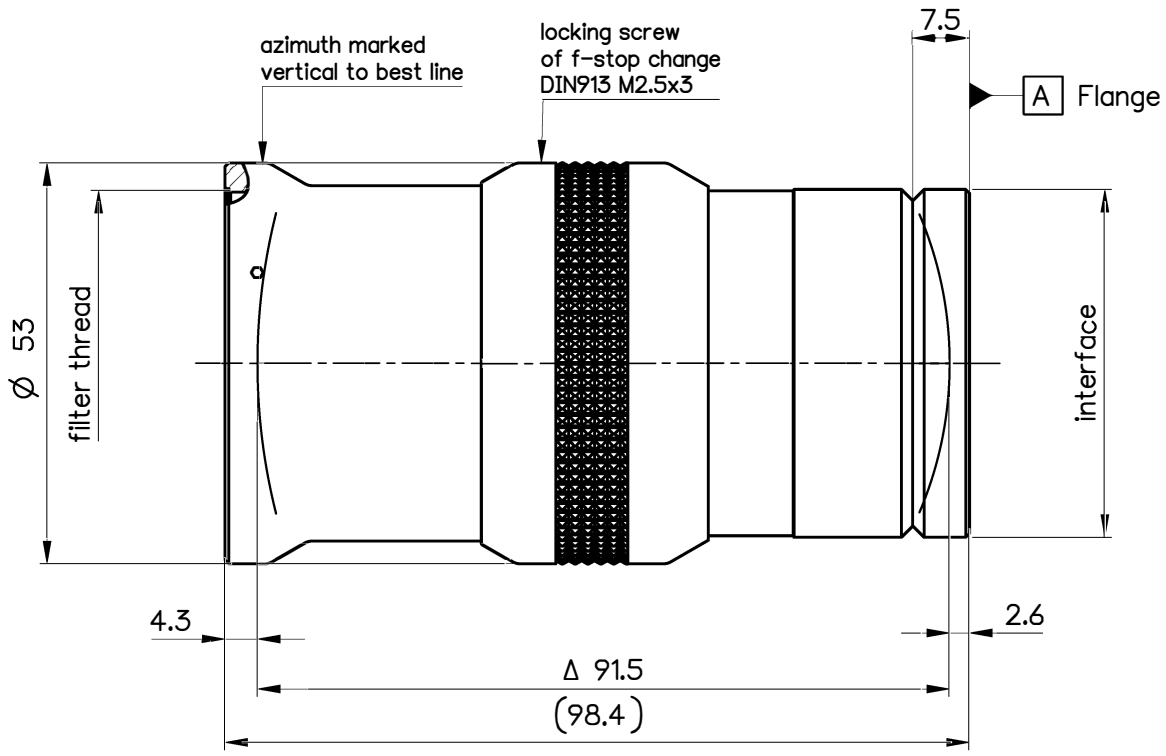
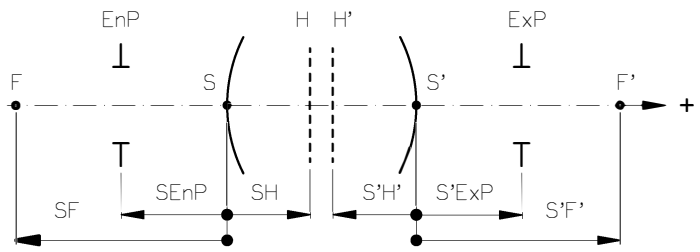
order number	lens name
0703-102-000-20	inspec.x L 3.5/105 -5x



Specification		ON	7604-9336
image circle max. (mm)	82	working distance (mm)	68 – 66
focal length f' (mm)	107.6	interface	V-groove Ø46 h7
magnification β' [range]	-5 [-4.8 ... -5.2]	filter thread	M46 x0.75
spectral range λ (nm)	400 – 750	weight (g)	450
		design includes CCD cover glass:	yes 0.4mm Suprasil

schematic diagram *) in air



		f-stop	Ø EnP	Ø ExP
SF (mm)	-49.0			
S'F' (mm) *)	37.5	3.5	34.2	30.1
HH' (mm) *)	-37.4	4	29.9	26.4
SH (mm)	58.6	5.6	21.4	18.8
S'H' (mm) *)	-70.1	8	14.5	13.2
SEnP (mm)	73.1	11	10.9	9.6
S'ExP (mm) *)	-57.4			

NX	EU-D	AL-T1A	US-D	US-ML	not export controlled
				PDM Status Freigabe	-

PROTECTIVE NOTE "DIN ISO 16016" TO BE OBSERVED

REV	ECC	DATE	APPROVED
a	Neuausg		
b	10-132	08.04.10	
c	10-132	26.04.10	
d	11-358	21.02.12	
e	14-0184	21.08.14	
f	15-0640	31.07.15	

GENERAL TOLERANCE OF DIMENSION, FORM, POS. | SURF. TREATMT

BASIC TOLERANCING PRINCIPLE

	DATE	NAME
FIRST ISSUE	21.12.09	
CHKD	21.12.09	

SCALE 1:1

MATERIAL

TITLE
inspec.x L 3.5/105 -5x

DIN A 4

ALL DIMENSIONS ARE IN MM AND INCLUDE SURFACE TREATMENT

excelitas®

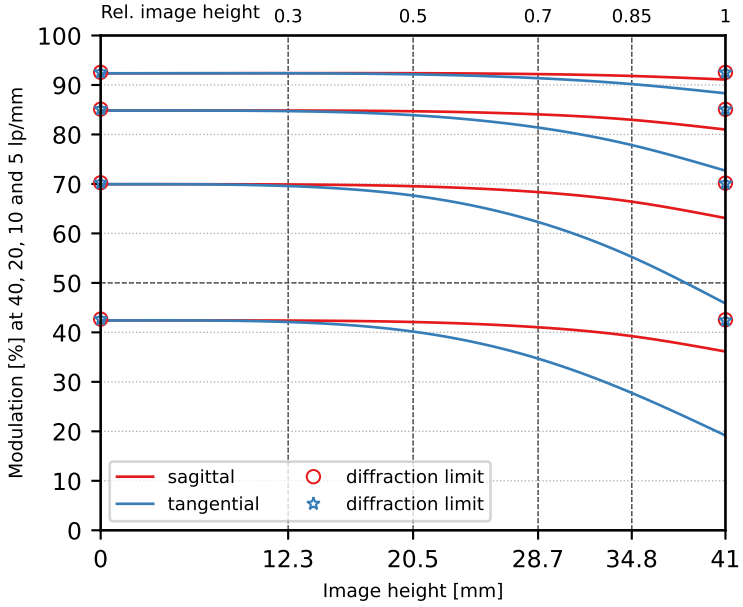
DRAWING NO.
0703-102-100-00-0001f

SHEET 1 OF 1

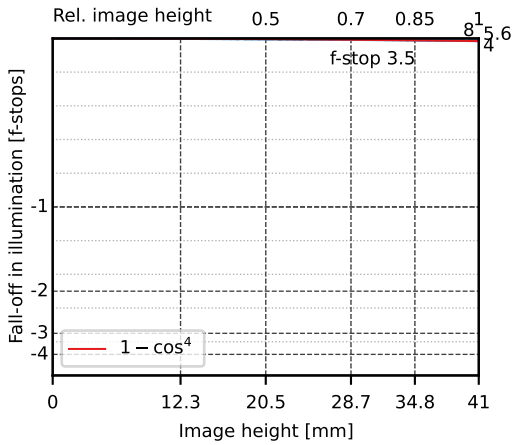
REPLACES

inspec.x L 3.5/105 -5x

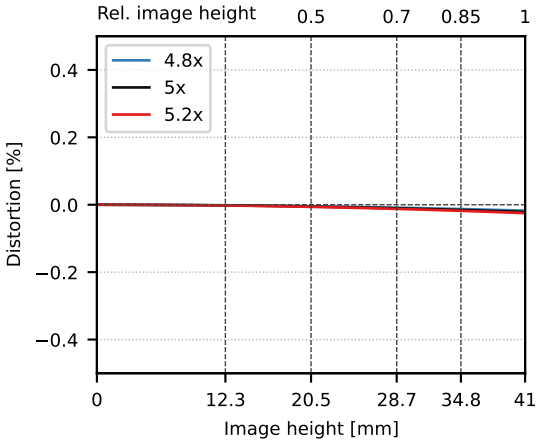
Modulation transfer function **Mag. 5x** **f-stop 3.5**



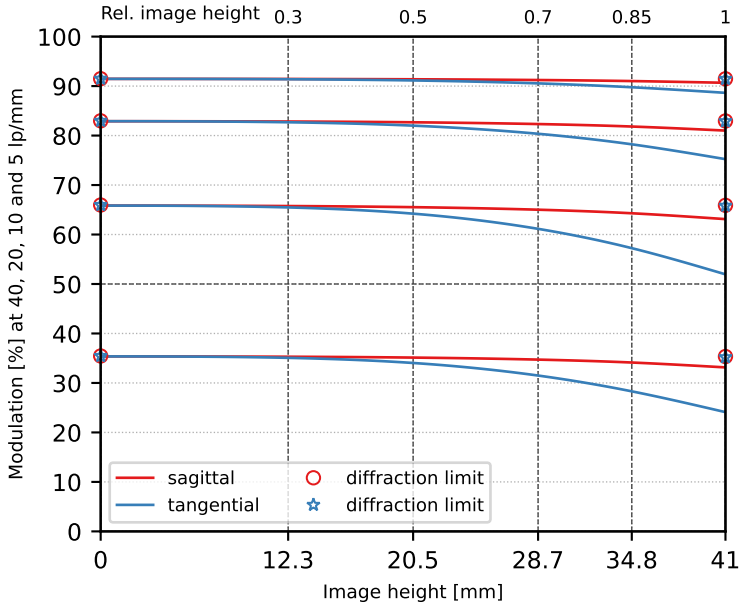
Fall-off in illumination **Mag. 5x**



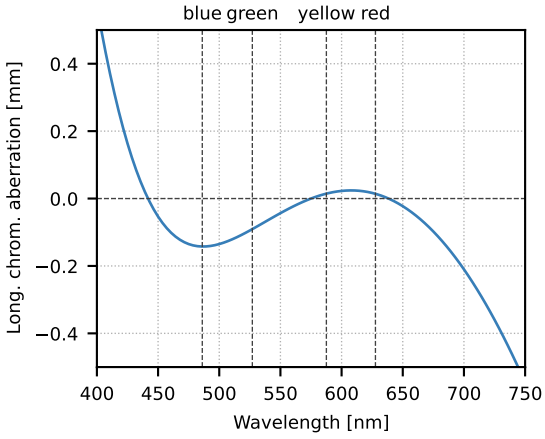
Distortion **Mag. 4.8x ... 5.2x**



Modulation transfer function **Mag. 5x** **f-stop 4**



Long. chrom. aberration **Mag. 5x**



All spatial frequencies [lp/mm], image heights [mm] and magnifications are related to sensor side.