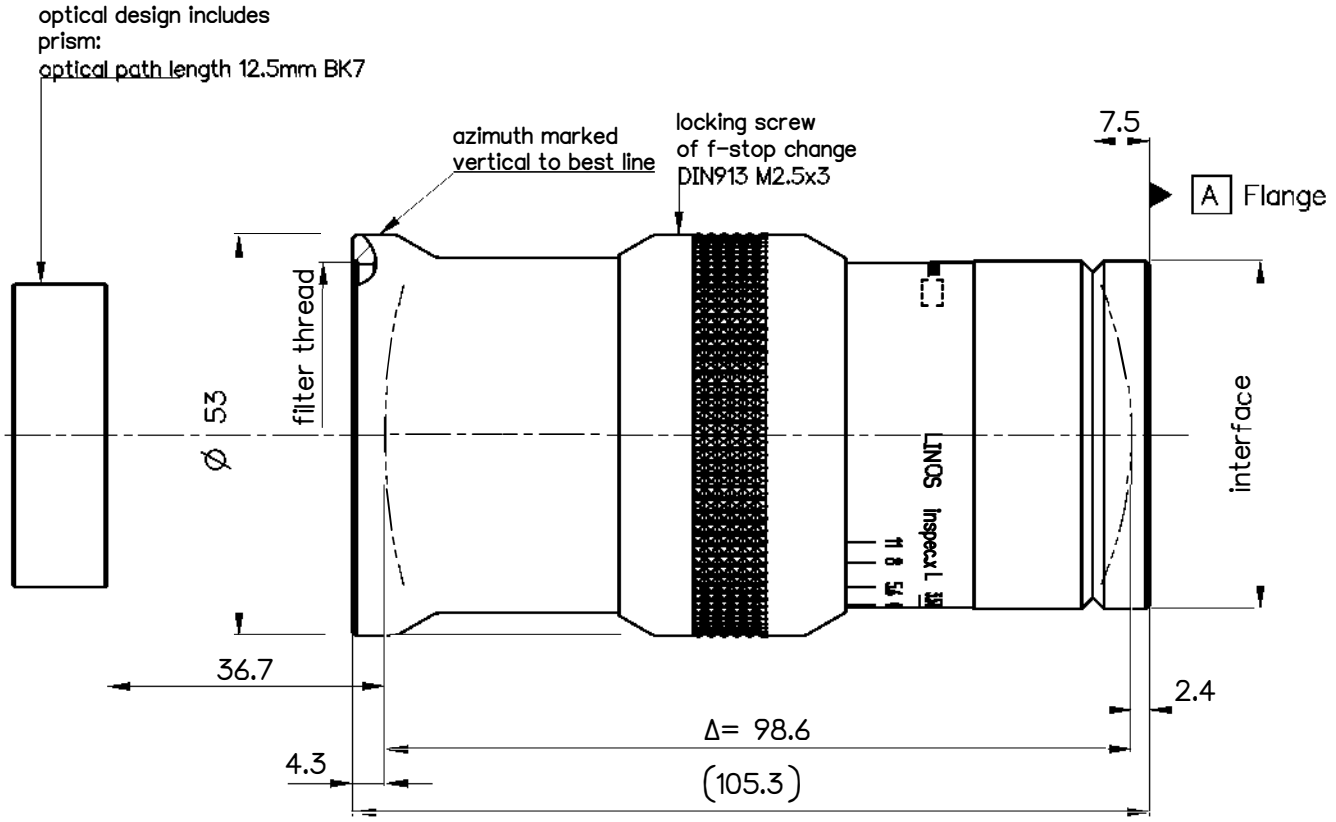
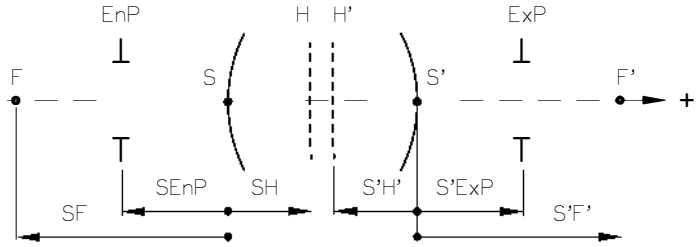
order number	lens name
0703-108-000-20	inspec.x L 3.5/105 -5x prism
0703-107-824-00	inspec.x L prism module



Specification	
image circle max. (mm)	siehe oben
focal length f' (mm)	113.3
magnification β' [range]	-5 [-4.8 ... -5.2]
spectral range λ (nm)	400 - 750

schematic diagram *) in air



ON	7604-9394
working distance (mm)	20 - 18
interface	V-groove Ø46 h7
filter thread	M46 x0.75
weight (g)	450
design includes CCD cover glass:	yes 0.4 Suprasil

SF (mm)	-49.0
S'F' (mm) *)	29.0
HH' (mm) *)	-49.9
SH (mm)	64.3
S'H' (mm) *)	-84.3
SEnP (mm)	71.9
S'ExP (mm) *)	-77.1

f-stop	Ø EnP	Ø ExP
3.5	34.2	32.0
4	29.9	28.0
5.6	21.4	20.0
8	15.0	14.0
11	10.9	10.2

NX

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

REV	ECC	DATE	APPROVED
a	Neuausg		
b	12-0185	05.04.12	
c	14-0184	21.08.14	
d	15-0640	31.07.15	
e	16-0357	04.07.16	

GENERAL TOLERANCE OF DIMENSION, FORM, POS.: ISO 2768-mH

SURF. TREATMT

SCALE 1:1

MATERIAL

BASIC TOLERANCING PRINCIPLE: ISO 8015

FIRST ISSUE	DATE	NAME
CHKD	28.07.11	

TITLE

inspec.x L 3.5/105 -5x prism

prepared for prism use

DRAWING NO. 0703-108-100-00-0001e

SHEET 1 OF 1

REPLACES

PROTECTIVE NOTE "DIN ISO 16016" TO BE OBSERVED

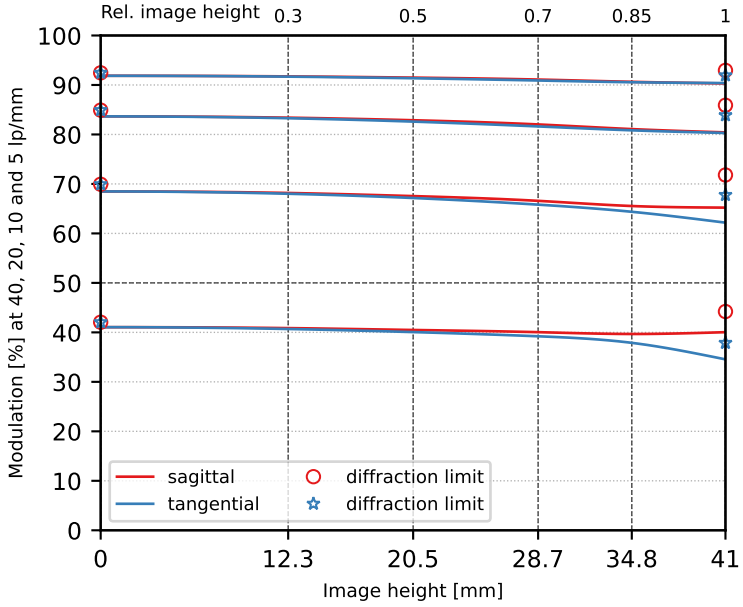
DIN A 4

ALL DIMENSIONS ARE IN MM AND INCLUDE SURFACE TREATMENT

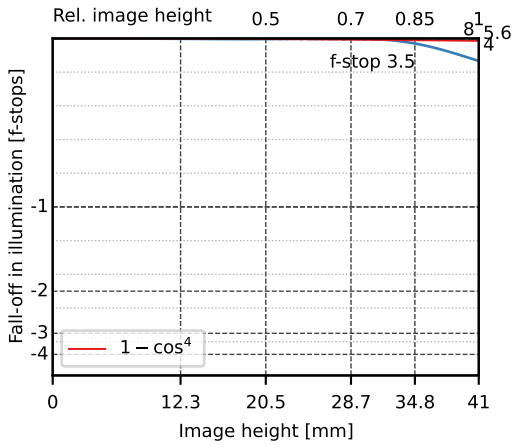
excelitas®

inspec.x L 3.5/105 -5x prism

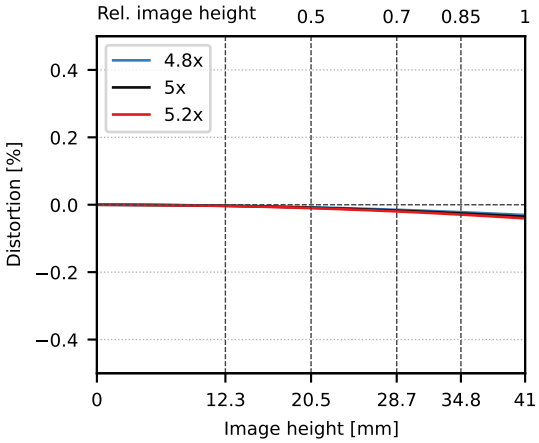
Modulation transfer function **Mag. 5x** **f-stop 3.5**



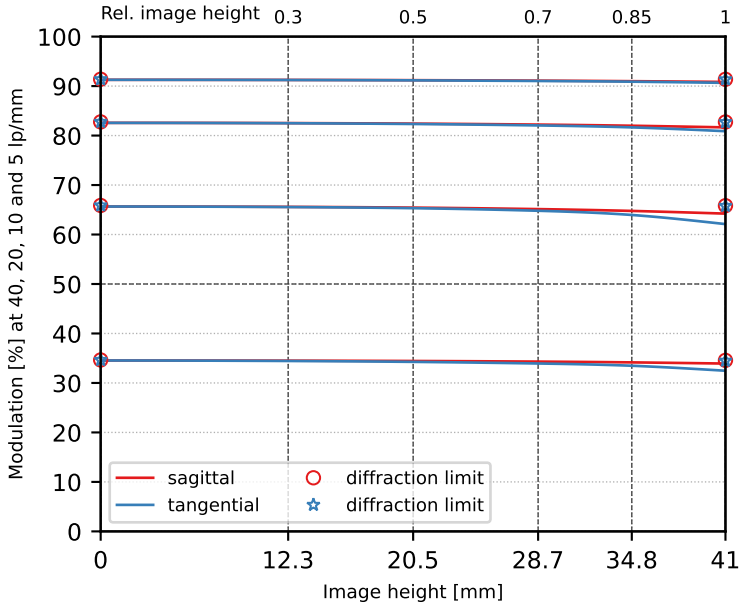
Fall-off in illumination **Mag. 5x**



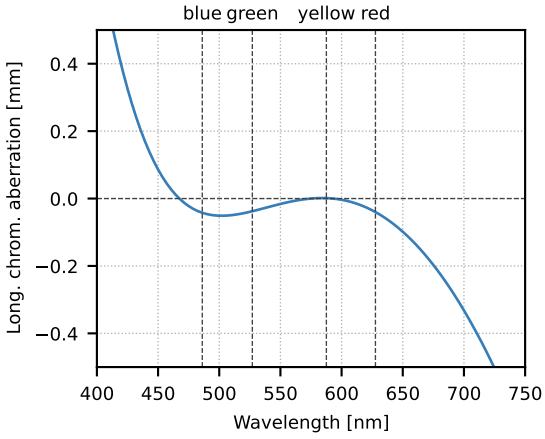
Distortion **Mag. 4.8x ... 5.2x**



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.