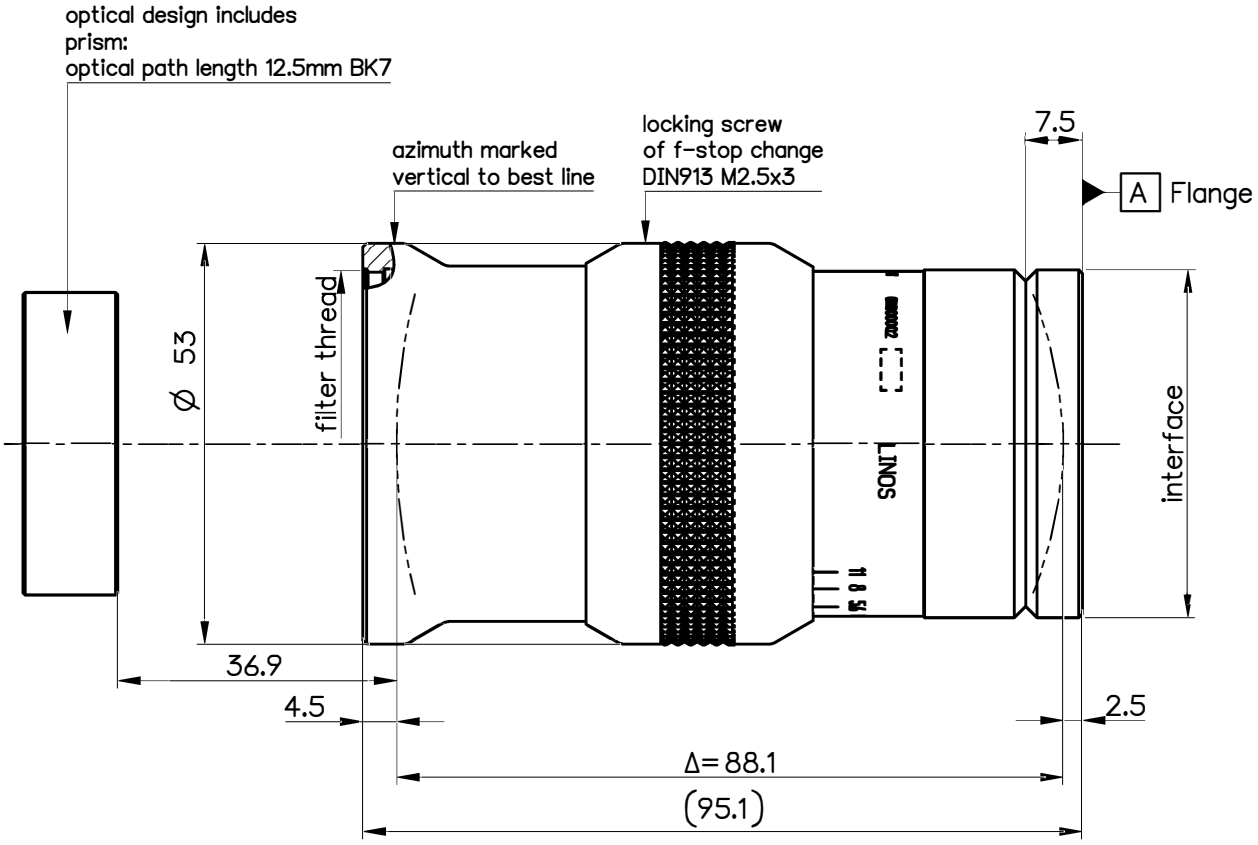
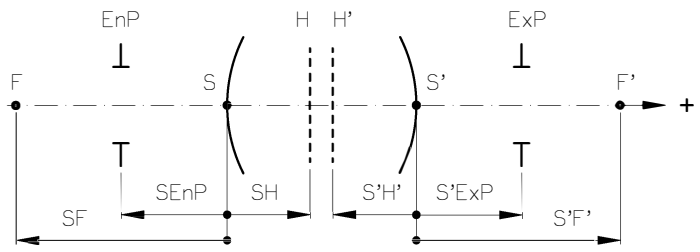
order number	lens name
0703-107-000-20	inspec.x L 4/105 -3.5x prism
0703-107-824-00	inspec.x L prism module



Specification	
image circle max. (mm)	82
focal length f' (mm)	105.3
magnification β' [range]	-3.5 [-3.3 ... -4.0]
spectral range λ (nm)	400 - 750

schematic diagram *) in air



ON	7604-9373
working distance (mm)	34 ... 28
interface	V-groove Ø46 h7
filter thread	M46 x0.75
weight (g)	440
design includes CCD cover glass:	yes 0.4mm Suprasil

SF (mm)	-54.5
S'F' (mm) *)	41.5
HH' (mm) *)	-26.5
SH (mm)	50.8
S'H' (mm) *)	-63.8
SEnP (mm)	55.4
S'ExP (mm) *)	-59.4

f-stop	Ø EnP	Ø ExP
4	27.2	26.2
5.6	19.4	18.6
8	13.6	13.0
11	9.9	9.5

NX

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

REV	ECC	DATE	APPROVED
a	Neuausg		
b	11-027	01.09.11	
c	11-358	21.02.12	
d	14-0184	21.08.14	
e	15-0640	31.07.15	
f	16-0357	03.07.16	

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

SURF. TREATMT

SCALE 1:1

MATERIAL

BASIC TOLERANCING PRINCIPLE: ISO 8015

FIRST ISSUE	DATE	NAME
	22.04.10	I
CHKD	22.04.10	

TITLE

inspec.x L 4/105 -3.5x prism

prepared for prism use

PROTECTIVE NOTE "DIN ISO 16016" TO BE OBSERVED

DIN A 4

ALL DIMENSIONS ARE IN MM AND INCLUDE SURFACE TREATMENT

excelitas®

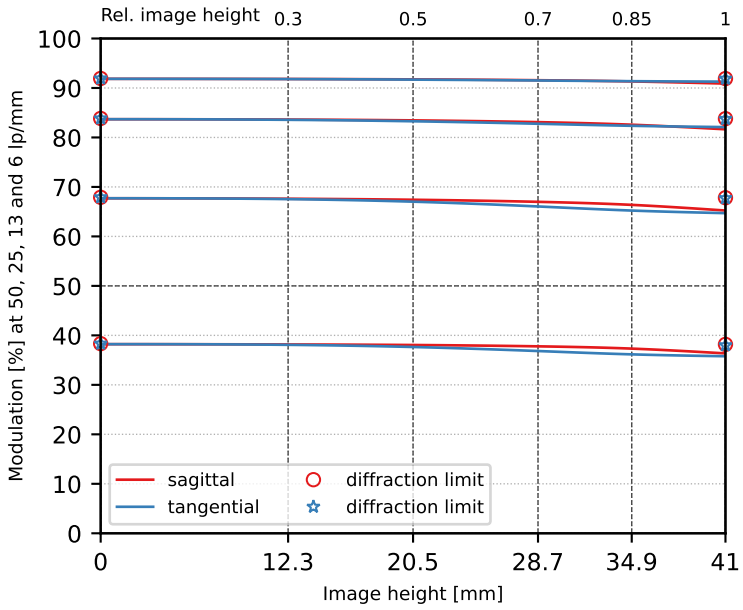
DRAWING NO. 0703-107-100-00-0001f

SHEET 1 OF 1

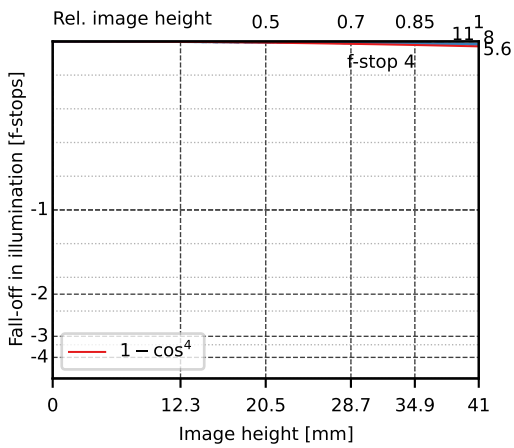
REPLACES

inspec.x L 4/105 -3.5x prism

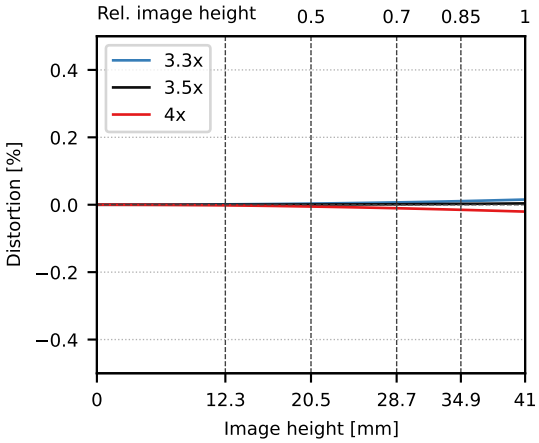
Modulation transfer function **Mag. 3.5x** **f-stop 4**



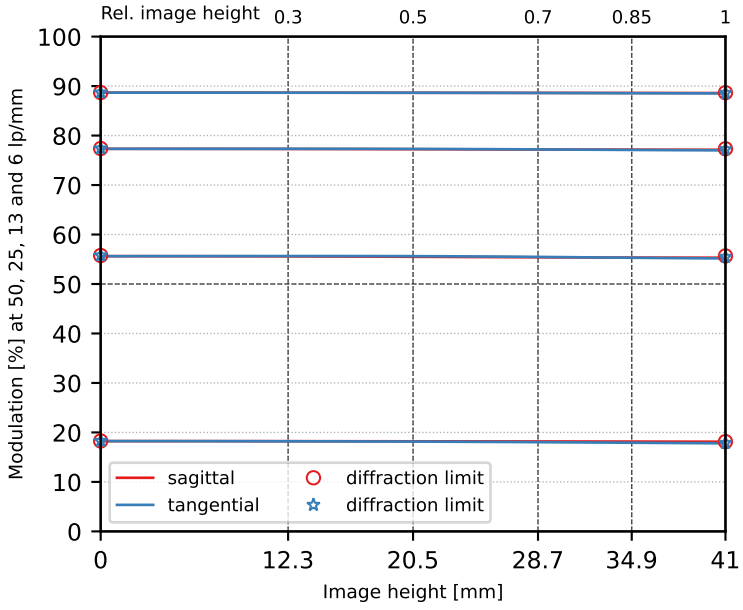
Fall-off in illumination **Mag. 3.5x**



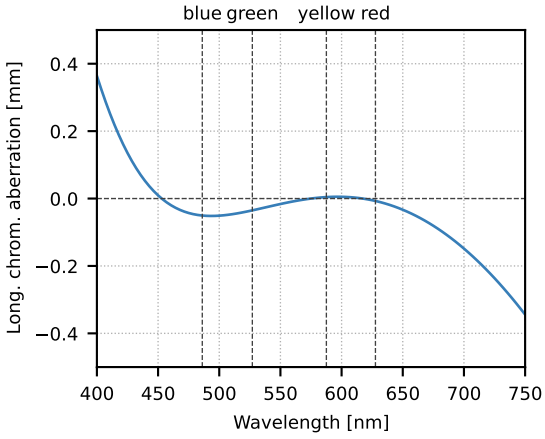
Distortion **Mag. 3.3x ... 4x**



Modulation transfer function **Mag. 3.5x** **f-stop 5.6**



Long. chrom. aberration **Mag. 3.5x**



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