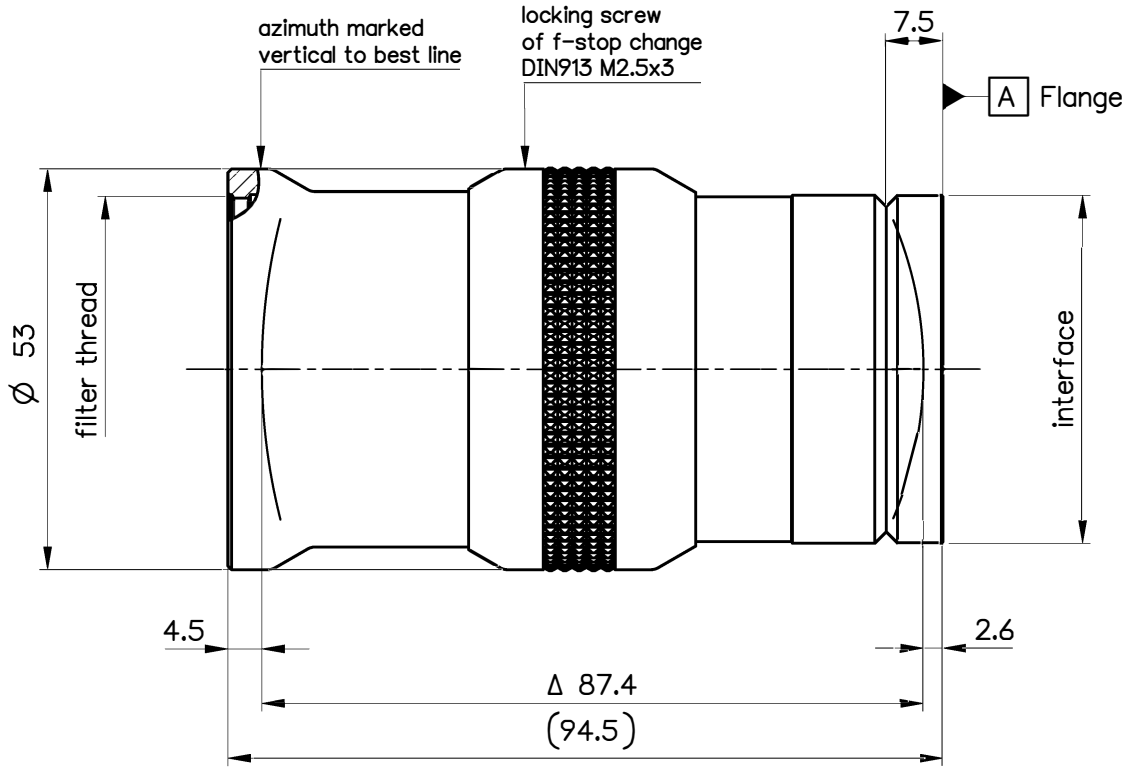
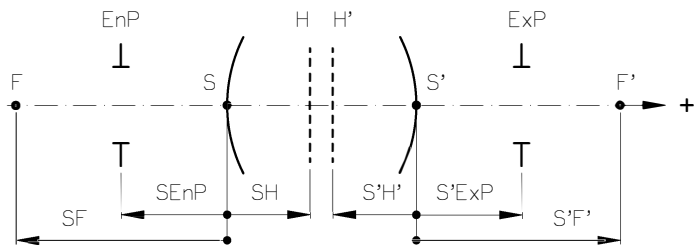
order number	lens name
0703-095-000-21	inspec.x L 4/105 -3.5x



Specification	
image circle max. (mm)	82
focal length f' (mm)	104.9
magnification β' [range]	-3.5 [-3.3 ... -3.7]
spectral range λ (nm)	400 - 750

schematic diagram *) in air



ON	7604-9331
working distance (mm)	79 - 75
interface	V-groove Ø46 h7
filter thread	M46 x0.75
weight (g)	440
design includes CCD cover glass:	yes 0.4mm Suprasil

SF (mm)	-51.0
S'F' (mm) *)	41.7
HH' (mm) *)	-29.8
SH (mm)	53.9
S'H' (mm) *)	-63.2
SEnP (mm)	56.4
S'ExP (mm) *)	-60.7

f-stop	Ø EnP	Ø ExP
4	26.7	26.1
5.6	19.1	19.2
8	13.4	13.0
11	9.7	9.5

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	09-276	22.07.09	
c	09-479	15.12.09	
d	10-215	22.04.10	
e	11-358	21.02.12	
f	12-0185	05.04.12	
g	14-0184	19.08.14	
h	15-0640	31.07.15	

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

BASIC TOLERANCING PRINCIPLE

	DATE	NAME
FIRST ISSUE	03.02.09	
CHKD	03.02.09	

SCALE 1:1

MATERIAL

TITLE: inspec.x L 4/105 -3.5x

DIN A 4

ALL DIMENSIONS ARE IN MM AND INCLUDE SURFACE TREATMENT

excelitas®

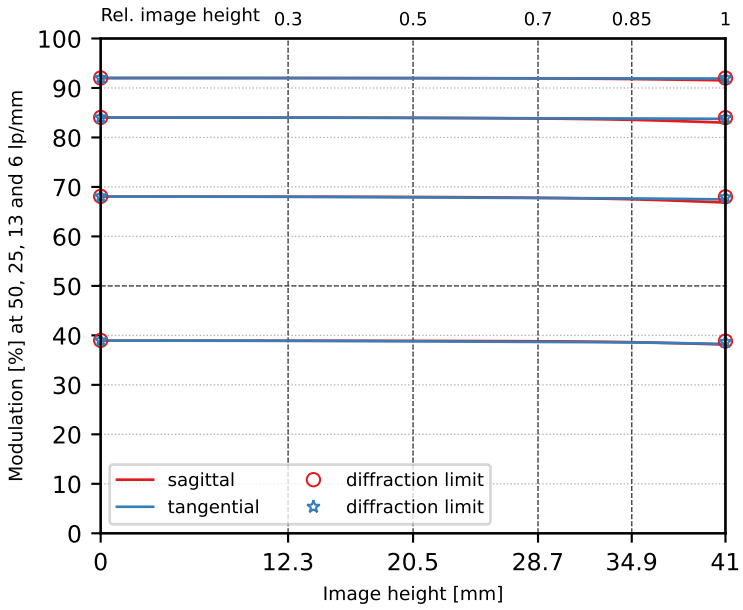
DRAWING NO. 0703-095-100-00-0001h

SHEET 1 OF 1

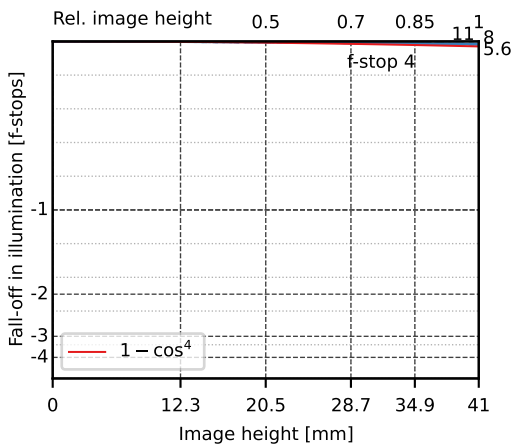
REPLACES

inspec.x L 4/105 -3.5x

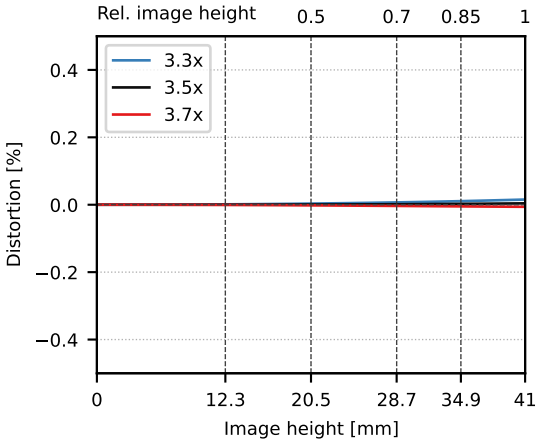
Modulation transfer function **Mag. 3.5x** **f-stop 4**



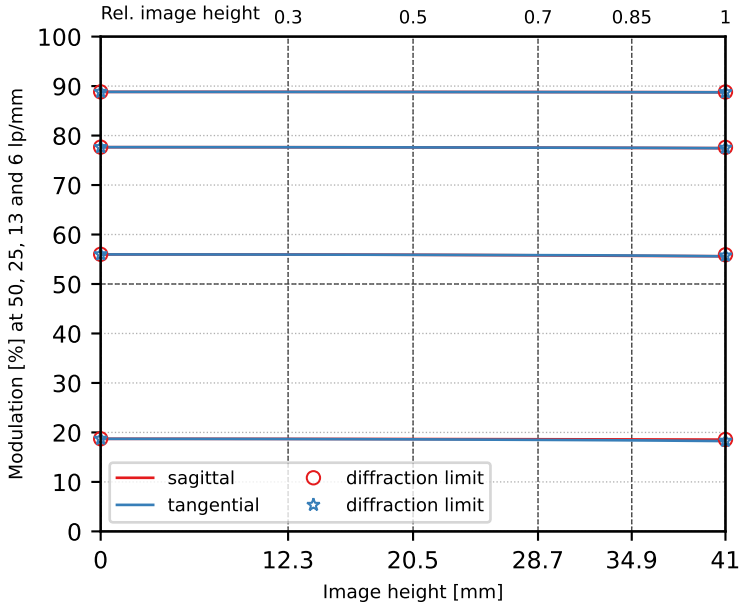
Fall-off in illumination **Mag. 3.5x**



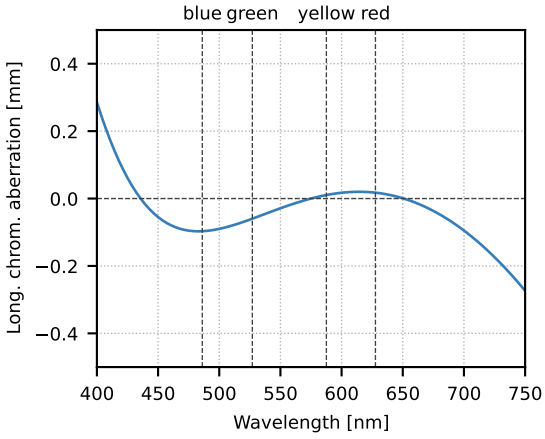
Distortion **Mag. 3.3x ... 3.7x**



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.