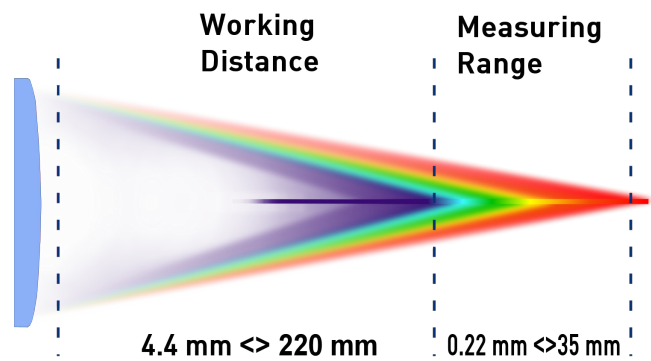


OP SERIES

LONG
WORKING
DISTANCE

MARPOSS
STIL

Chromatic Confocal Controller



The OP line consists of a one-piece sensor head for dedicated applications (e.g. high distance). It offers outstanding performance:

- Long working distance
- Optimal photometric coefficients
- Multiple applications (roughness, thickness, autofocus and more)
- Provision of performance specifications for the STIL-certified

All materials

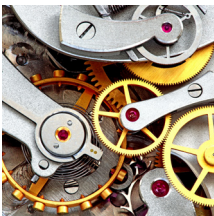
Industrial

Accurate
measurement

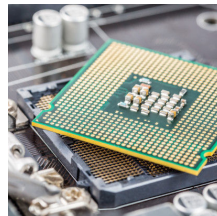


DESIGNED FOR

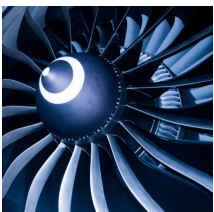
Mechanics



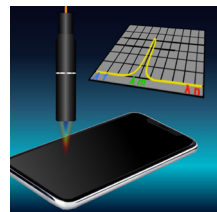
Semiconductors



Aerospace



Metrology



PERFECT FOR

Distance



Dimension



Thickness



Shape



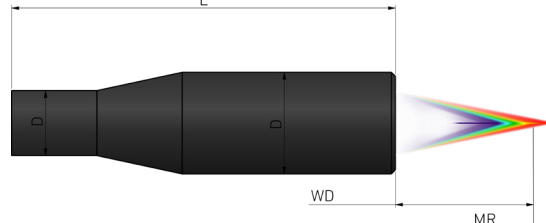
OP SERIES

LONG
WORKING
DISTANCE

MARPOSS
STIL

Chromatic Confocal Controller

DIMENSIONAL DRAWING*



Nota: All dimensions are in mm

SPECIFICATIONS*

Product	Unit	OP300VM	OP1000	CL4-LWD	OP6000	OP8000	OP10000	OP12000	OP30000	OP35000
Order code		O3PS1400001	O3PS1400003	O3PS014LWD0	O3PS1400004	O3PS1400005	O3PS1400006	O3PS1400010	O3PS1400008	O3PS1400011
Measuring Range	mm	0.22	1	4	6	8	10	12	30	35
Working Distance	mm	5	23.9	40	28	39	66.9	46	220	62
Numerical aperture		0.5	0.45	0.36	0.39	0.295	0.2	0.25	0.095	0.33
Max. slope angle	°	± 25	± 24	± 21	± 22	± 16	± 11	± 14	± 5	± 17
Axial or folded model		Axial, 90° folded version available	Axial	Axial	Axial	Axial	Axial, 90° folded version available	Axial	Axial	Axial
Max. linearity error**	µm	± 0.07	± 0.2	0.3	± 0.35	± 0.6	± 0.8	0.6	2.5	± 2.2
Static noise**	nm	25	50	110	200	350	600	380	2000	1000
Axial resolution**	µm	0.15	0.3	0.66	1.2	2.1	3.6	2.28	12	6
Lateral resolution	µm	3.2	2.2	4.3	6.25	16.5	25	14	48	13
Spot size	µm	6.4	4.4	8.6	12.5	33	50	32.5	96	26
Photometric efficiency		34	15	25	49	145	156	100	117	30
Min. measurable thickness***	µm	25	25	110	150	300	425	550	2000	1200
Length	mm	127	254.1	167.4	211	139	189	58.3	168	300.3
Diameter	mm	15 (17)	50	50	60	40	50	36	59	80
Weight	g	27	753	470	795	365	525	130	405	2200

** With CCS electronics (PRIMA & OPTIMA+)

*** Typical value considering a layer of glass, i.e. considering a refractive index n=1.51

ASSOCIATED WITH

OPTICAL FIBER

- Standard cladding
- Stainless steel cladding
- Armored fiber

CONTROLLER



- ZENITH
- PRIMA, - OPTIMA +, PRIMA 2
- LIGHTMASTER
- STIL-DUO

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