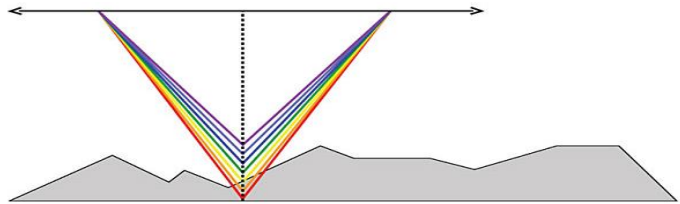




NON-CONTACT OPTICAL HEADS



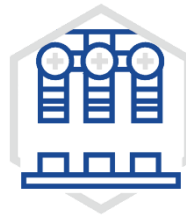
With thousands of sensors sold worldwide over the last 25 years, STIL's Chromatic Confocal modular optical heads series is the perfect balance of technology and precision. Find the optimized optical head for your application!

Versatile



**Adapted to any
type of surface**

Industrial



**Works in any
environment**

Approved



**+ 15K optical heads
sold worldwide**



DESIGNED FOR

Micromechanics



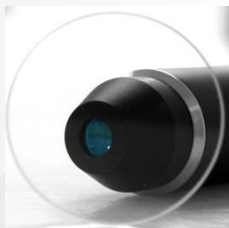
Semiconductors



Aerospace



Glass



PERFECT FOR

Distance



Roughness



Thickness

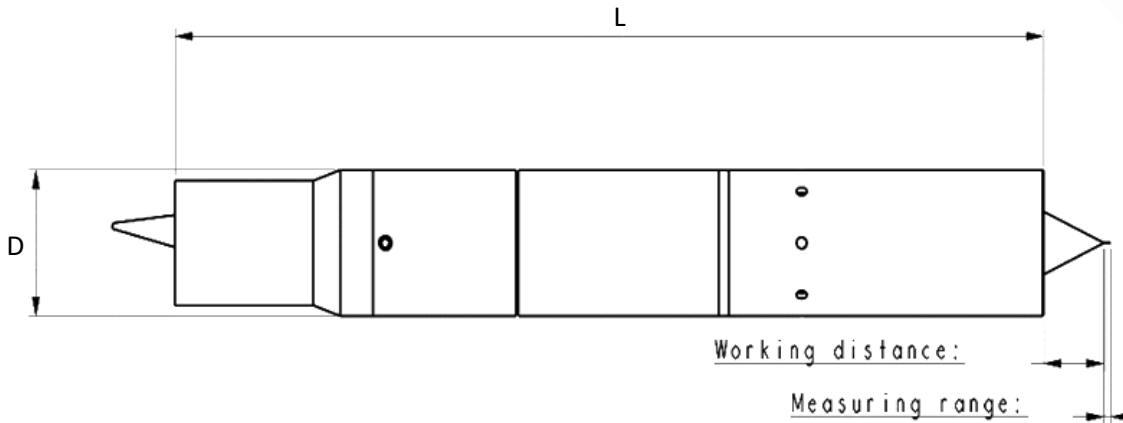


Shape





DIMENSIONAL DRAWING & SPECIFICATIONS



OPTICAL HEAD SPECIFICATIONS *

Model	unit	CL1-MG210	CL2-MG140	CL3-MG70	CL4-MG35	CL5-MG35	CL6-MG20
Measuring range	µm	150	400	1400	4000	12000	24000
Working distance	mm	3,3	10,8	12,2	16,5	26,6	20
Numerical aperture		0,71	0,46	0,41	0,32	0,2	0,12
Max. sample slope	°	42	28	25	21	14	8,5
90° folded model		Option					
Spot size	µm	2,7	4	11,9	12,3	24,3	43
Static noise	nm	7	17	60	110	370	800
Max. linearity error	nm	25	55	130	300	750	1200
Min. measurable thickness	µm	7,5	14	40	110	350	725
Length (L)	mm	243,8	208,9	176,1	145,4	145,4	155,6
Diameter (D)	mm	27					
Weight	g	268	190	214	155	175	180



ASSOCIATED WITH

OPTICAL FIBER



- Standard fiber, 50 µm core, up to 10 m
- Metal shielded, 50 µm core, up to 20 m
- Thin fiber, 20 µm core, up to 2 m



CONTROLLER

- CCS Prima & Optima +
- CCS Prima 2 & CCS Prima 4
- Multima 12 & Multima 48