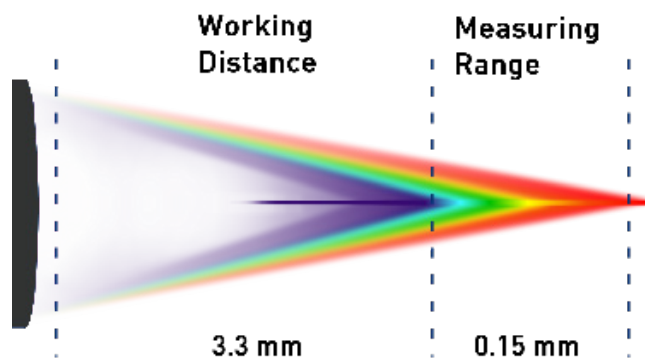


CL1 - MG420

NEW
2020

MARPOSS
STIL

Chromatic Confocal Controller



The new CL1-MG420 offers outstanding performance:

- Universal diameter (27mm)
- Axial resolution (from nanometer to micrometer scales)
- A few hundred grams for easy OEM integration
- Thin thickness measurement (5µm glass thickness & 3,5µm air gap)
- Measurement of curved or tilted samples
- High axial resolution (few nanometers)

All materials

Industrial

Accurate
measurement

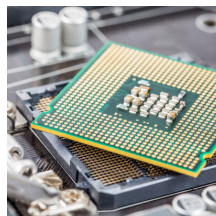


DESIGNED FOR

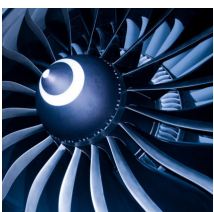
Mechanics



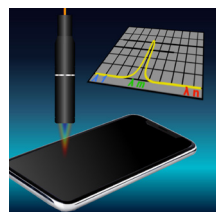
Semiconductors



Aerospace



Metrology



PERFECT FOR

Distance



Roughness



Thickness



Shape



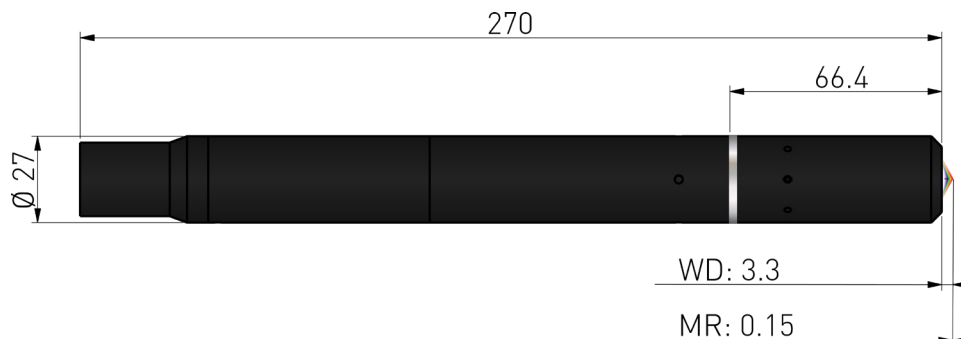
CL1 - MG420

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DIMENSIONAL DRAWING*



Nota: All dimensions are in mm

SPECIFICATIONS*

Product	Unit	CL1-MG420
Order code		03PS0114201
Measuring Range	mm	0.15
Working Distance	mm	3.3
Numerical aperture		0.71
Max. Sample slope	°	± 42
Protective window		No
Axial model		Standard
90° Folded model		Option
Max. linearity error**	µm	± 0.025
Static noise**	nm	6
Axial resolution**	µm	0.036
Lateral resolution	µm	0.8
Spot size	µm	1.8
Photometric efficiency		0.8
Min. measurable thickness***	µm	5
Length	mm	270
Diameter	mm	27
Weight	g	310

** With CCS electronics (PRIMA & OPTIMA+)

*** These are typical values 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
- STIL-DUO

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* Specifications are subject to modifications

CLMG-142-N1-0822