

M P L S - D M

NEW
2020

MARPOSS STIL

Chromatic Confocal Controller



Based on the chromatic confocal technology invented by STIL, the Chromaline sensor family is the next logical step in industrial integration.

Thanks to its accuracy, its robustness and a life span of several years without any maintenance, the MPLS sensor is particularly adapted to in-line control's requirements.

The new MPLS-DM version offers high quality control with new capabilities, and working frequencies up to 2kHz in standard mode and 6kHz with reduced sensor range.

Its 180 measurement points aligned on a line ranging from 1 to 12 millimeters establish the MPLS-DM as an optimized line sensor solution for all applications.

Versatile



All materials

Industrial



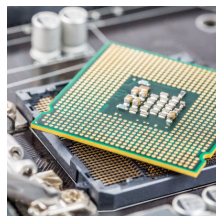
All industries

DESIGNED FOR

Mechanics



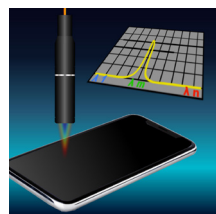
Semiconductors



Glass

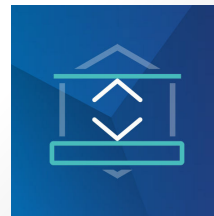


Metrology



PERFECT FOR

Distance



Roughness



Thickness



Shape



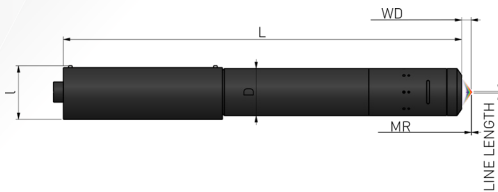
M P L S - D M

**HIGH
PERFORMER**

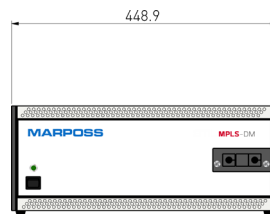
MARPOSS STIL

Chromatic Confocal Controller

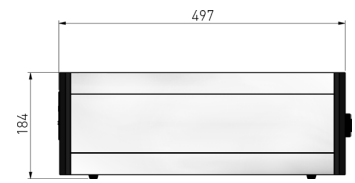
DIMENSIONAL DRAWING*



SENSOR HEAD



CONTROLLER



Nota: All dimensions are in mm

SPECIFICATIONS*

Product	Unit	MPLS-DM NANOVIEW	MPLS-DM WIREVIEW	MPLS-DM MICROVIEW	MPLS-DM DEEVIEW	MPLS-DM SUPERVIEW
Order code		OPSTM705001	OPSTM710001	OPSTM706001	OPSTM707002	OPSTM711001
Line length (X axis)	mm	1.34	1.51	1.8	4.2	12.85
Measuring Range 2 kHz	mm	0.12	0.9	0.5	2.6	2
Working Distance	mm	7.4	7.8	10.1	19.5	11.3
Numerical aperture		0.75	0.75	0.5	0.37	0.33
Max. sample slope	°	± 43	± 46	± 30	± 20	± 17
Pitch (dist. between 2 points)	µm	7.5	8.5	10.1	23.5	71.8
Max. linearity error	µm	± 0.04	± 0.1	± 0.08	± 0.12	± 0.12
Satic noise	nm	25	150	100	300	300
Axial resolution	µm	0.15	0.9	0.6	1.8	1.8
Spot size	µm	2.9	3.2	3.8	8.8	27.2
Homogeneity	nm	30	200	125	400	400
Min. measurable thickness***	µm	18	110	50	250	300
Length	mm	436.1	480.7	425.6	428.3	397.8
Diameter	mm	50	70	50	60	60
Weight	g	2350	2850	2250	2800	2550
Measuring Range 4 kHz	mm	0.055**	0.45**	0.235**	1.15**	0.9**
Measuring Range 6 kHz	mm	0.030**	0.24**	0.12**	0.65**	0.5**

** Preliminary value

*** Typical value considering a layer of glass, i.e. considering a refractive index n=1.51 5m fiber

ACCESSORIES

Product	Order code	Characteristic
Holder D50	O15ST000005	Holder D50 for 50 mm Diameter probes (MicroView, NanoView, MicroView)
Holder D60	O15ST000006	Holder D60 for 60 mm Diameter probes (DeepView,Superview)
Holder D70	O15ST000010	Holder D70 for 70 mm Diameter probes (WireView)

www.stil-sensors.com

info@stil-sensors.com

+33 (0)4 42 39 66 51

Some of the items supplied by STIL S.A.S., or parts of them, may be subject to export control if exported outside the European Union, or may be subject to restrictive measures adopted by the competent national, supranational or international authorities. Buyer of the items delivered by STIL S.A.S. shall comply with all applicable export control and sanctions laws and regulations.

* Specifications are subject to modifications

MPLS-050 XX-0822