ENDO SERIES

NEW 2020

MARPOSS STIL

Chromatic Confocal Controller

ENDO AXIAL

ENDO RADIAL

ENDO are ideal for non-contact measurements in small space environments.

These miniature sensors are particularly useful for holes or cavities with small diameter's measurement. Thanks to their size, they can be easily integrated into the inspection machines of the production line.

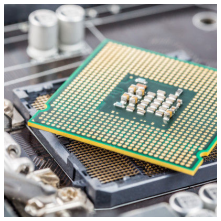
Working with any STIL optoelectronic controller, the ENDO series allows precise measurements with a sub-micron resolution.

- Small external diameters (from 4mm to 8mm), ideal for the integration of several sensors
- Axial or radial screws with 90 degree return
- Lightweight and compact for easy integration

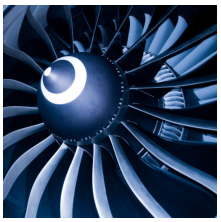
DESIGNED FOR

Mechanics

Semiconductors



Aerospace



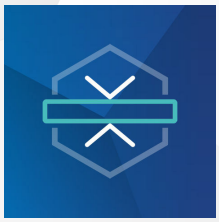
Glass

PERFECT FOR

Distance

Dimension

Thickness



Shape

www.stil-sensors.com info@stil-sensors.com +33 (0)4 42 39 66 51

ENDO SERIES

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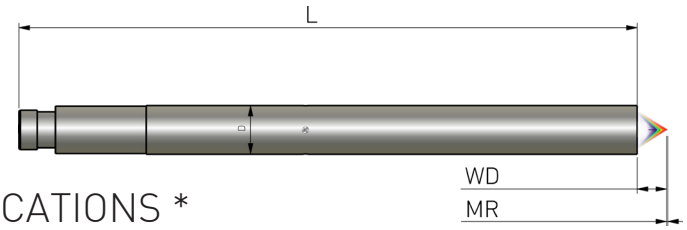
DIMENSIONAL DRAWING*



SPECIFICATIONS *

Nota: All dimensions are in mm

Product	Unit	ENDO 0.2/D8	ENDO 0.3/D6	ENDO 0.3/D6 R	ENDO 1/D4 R	ENDO 2/D6
Order code		O3PS0382002	O3PS0361001	O3PS0362001	O3PS0341002	O3PS0361702
Measuring Range	mm	0.22	0.3	0.3	1	2
Working Distance	mm	4.8	1.3	0.9	1	5.2
Numerical aperture		0.39	0.42	0.3	0.16	0.18
Max. sample slope	°	± 21.5	± 21	± 15	± 7.5	± 10
Axial or radial model		Axial	Axial	Radial	Radial	Axial
Max.linearity error**	µm	± 0.05	± 0.085	± 0.1	± 0.2	±0.22
Static noise**	nm	25	25	40	100	180
Axial resolution**	µm	0.15	0.15	0.24	0.6	1.08
Lateral resolution	µm	2.5	3.8	2.5	6.5	8.5
Spot size	µm	4.6	6.4	5	13.2	16.5
Photometric efficiency		16	19	4	10	24
Min. measurable thickness***	µm	25	20	50	300	180
Length Diameter Weight	mm mm g	102 8 20	70 6 12	87.3 6 13	64 4 3.5	82.2 6 12

Product	Unit	ENDO 1.2/D6	ENDO 1.2/D8	ENDO 1.5/D6 R	ENDO 10/D8	ENDO 10/D8-R
Order code		O3PS0361002	O3PS0386001	O3PS0362501	O3PS0388001	O3PS0388501
Measuring Range	mm	1.2	1.2	1.5	10	10
Working Distance	mm	2.3	3.5	0.9	11.3	8.4
Numerical aperture		0.22	0.36	0.19	0.1	0.1
Max. sample slope	°	± 13	19.5	± 10	±4.5	±4.5
Axial or radial model		Axial	Axial	Radial	Axial	Radial
Max.linearity error**	µm	± 0.2	± 0.08	± 0.2	0.8	0.8
Static noise**	nm	160	60	160	0.6	0.6
Axial resolution**	µm	0.96	0.36	0.96	3.6	3.6
Lateral resolution	µm	7.5	3.4	10	17	17
Spot size	µm	15	6.8	19.5	31	31
Photometric efficiency		46	19	29	36	24
Min. measurable thickness***	µm	140	60	200	500	500
Length Diameter Weight	mm mm g	75.2 6 10	74 8 16	87.3 6 13	102 8 23	108.7 8 23

** With CCS electronics (PRIMA & OPTIMA+)

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

* Specifications are subject to modifications

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