

## ■ Interferometric optical pens

Objective model		OPILB-RP		OPILB-LWD-D		OPILB-LWD-T		
Measuring mode	-	Distance		Distance		Thickness		
Measuring range	[ $\mu\text{m}$ ]	135		135		0.5-90 <sup>(1)</sup>		
Working distance	[mm]	5.3		5.3		5.3		
Axial resolution	[nm]	0.5		2		0.5		
Axial accuracy	[nm]	10		10		10		
Max object slope	[deg]	7		7		7		
Reference plate <sup>(2)</sup>	-	Yes		No		No		
Vibration insensitive <sup>(4)</sup>	-	Yes		No		Yes		
Magnifier model		MG210	MG140	MG210	MG140	MG70	MG35	MG20
Spot size diameter	[ $\mu\text{m}$ ]	3.8	5.6	3.8	5.6	11.4	22.8	40
Lateral resolution	[ $\mu\text{m}$ ]	1.9	2.8	1.9	2.8	5.7	11.4	20
Length <sup>(3)</sup>	[mm]	200	164	200	164	131	100	84
Weight <sup>(3)</sup>	[g]	200	127	200	127	126	67	52
Mechanical diameter	[mm]	27	27	27	27	27	27	27

(1) The values are given for transparent samples of 1.5 refractive index value.

(2) The reference plate is placed directly on the sample.

(3) In distance mode the reference plate of the OPILB-RP acts as an absolute reference. It compensates for the mechanical imperfections of the scanning system.

In thickness mode there is no need for the reference plate, since the sample's rear face acts as the absolute reference.

(4) Excluding optical fiber.