

### 1.1.1.3 Special photodiode sensors

#### 3 $\mu$ W to 1W

##### Features

- PD300-MS for measurement of optical intensity after the microscope objective.
- Low angular dependence for high N.A. objectives.
- Can be used with air, water or oil immersion objectives.

PD300-MS



Model	PD300-MS	
Use	Measurement of light intensity at microscope slide plane	
Detector Type	Silicon with filter	
Aperture	18x18mm	
Spectral Range nm	350-1100	
Power Range	3 $\mu$ W to 1W (see wavelength dependency below)	
Power Scales	100 $\mu$ W to 1W and dBm	
Resolution $\mu$ W	0.1	
Maximum Power vs. Wavelength	Wavelength, nm	Power Range
	350 - 650	6 $\mu$ W to 1W
	650 - 800	3 $\mu$ W to 800mW
	800 - 1000	3 $\mu$ W to 600mW
	>1000	6 $\mu$ W to 700mW
Accuracy (including errors due to temp. variations)		
% error vs Wavelength nm <sup>(a)</sup>	$\pm 7$ 350 - 400 $\pm 5$ 400 - 1100	
Linearity	1%	
Additional Error with Converging Beam	3% for N.A. 0.9	
Damage Threshold W/cm <sup>2</sup>	20	
Noise Level	300nW at 350nm, 150nW at 960nm	
Response Time with Meter s	0.2	
Compliance	CE, China RoHS	
Version		
<b>Part Number</b>	<b>7Z02482</b>	

Note: (a) for beam centered on sensor  $\pm 2$  mm

