## **Medium-High Power Fan Cooled Thermal Sensors**

## 50mW to 100W

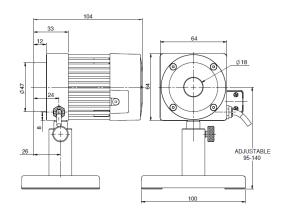
## **Features**

- General purpose and high damage threshold
- Fan cooled
- Powers to 100W
- \$17.5 aperture





Model	F100A-PF-DIF-18
Use	Short pulse lasers
Absorber Type	PF type + diffuser
Spectral Range µm	0.24 – 2.2
Aperture mm	φ 17.5mm
Power Mode	
Power Range (b)	50mW - 100W
Power Scales	100W / 30W /3W
Power Noise Level (b)	6mW
Maximum Average Power Density KW/cm <sup>2</sup>	0.5
Response Time with Display (0-95%) typ. s	2
Power Accuracy +/-%	5
Linearity with Power +/-%	1.5
Energy Mode	
Energy Range	60mJ - 200J
Energy Scales	200J / 30J / 3J
Minimum Energy mJ (b)	60
Maximum Energy Density J/cm <sup>2</sup>	
<100ns	4 <sup>(a)</sup>
0.5ms	15 <sup>(a)</sup>
2ms	35 <sup>(a)</sup>
10ms	50 <sup>(a)</sup>
Cooling	fan
Fiber Adapters Available (see page 44)	NA
Weight Kg	0.4
Version	
Part Number: Standard Sensor	7Z02741
Notes: (a) For shorter wavelengths derate maximum energy density as follows:	Wavelength Derate to value 1064nm not derated 532nm 80% of stated value 355nm 60% of stated value 266nm 40% of stated value 193nm NA
Notes: (b) For lower powers up to 30W it is recommended to work with the fan off and then the noise level is ~3 times lower. It is also recommended to measure energy with the fan off.	



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