

1.2.4 Energy Sensors Accessories

1.2.4.1 Accessories for Pyroelectric Sensors

Fiberoptic Adapter for
Pyroelectric Sensors



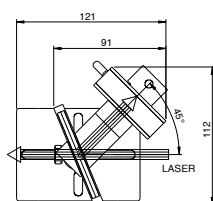
Oscilloscope Adapter for
Pyroelectric Sensors



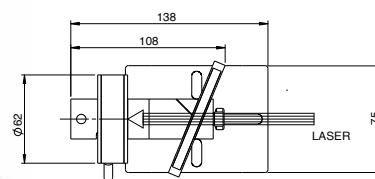
Heat Sink for
PE-C Series Sensors



Beam Splitter Assembly



Beam splitter installed – reflected beam on sensor

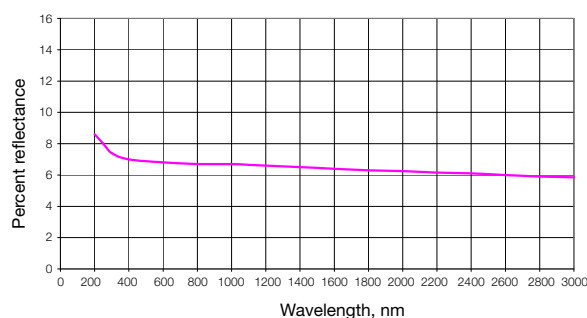


Beam Splitter removed – direct beam on sensor

Beam Splitter Specifications

Material	UV grade fused silica	
Spectral range	0.19 - 2.2µm	
Aperture	Ø60mm	
Damage threshold for pulses	< 10ns PW	>300µs PW
	5J/cm ²	>200J/cm ²
Fraction split off	See graph	

F.S. Beam Splitter, 2 sided reflection unpolarized light



Accessory	Description	Part number			
Heat Sink	Heat sink that screws onto rear of PE25 and PE50 series sensors and allows working at over 50% higher average powers.	7Z08267			
Scope Adapter	Plugs in between the PE sensor and power meter. Provides BNC output to scope to see every pulse up to the maximum frequency of the sensor.	7Z11012			
Fiber Adapters	To mount fibers to sensors you need an adapter bracket and fiber adapter. All fiber adapters are compatible with the adapter bracket selected.				
Fiber Adapter Brackets	Mounting brackets to allow mounting fiber adapters to pyroelectric sensors.				
PE Sensor Family Type		Bracket P/N		Distance from fiber to detector	
PD10-C / PD10-IR-C / PD10-pJ-C / PD10-IR-pJ-C		7Z08275		10mm	
PE50-C / PE50BF-C		7Z08270		15mm	
PE9-C / PE9-ES-C / PE10-C / PE10BF-C / PE25-C / PE25BF-C		7Z08269		10mm	
Fiber Adapters	Fiber adapters for mounting to above brackets	SC type	ST type	FC type	SMA type
For all PE sensors above		7Z08227	7Z08226	7Z08229	1G01236A
Beam Splitter Assembly	Beam Splitter Assembly to measure pulsed laser sources too energetic for direct measurement. The reading with the Beam Splitter can be calibrated by setting the laser to a lower energy that will not damage the sensor and then taking a measurement with the beam splitter and without and taking the ratio.	7Z17001			

1.2.4.1 Accessories for Pyroelectric Sensors - Continued

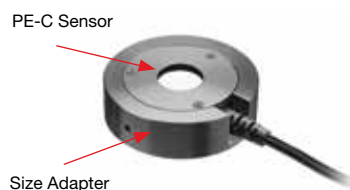
Damage Threshold Test Plates



Nova PE-C Adapter



PE-C to PE Size Adapter



Negative Polarity Power Supply/Charger



Accessory	Description	Part number		
		Metallic type	BF type	BB type
Damage Threshold Test Plates	Test plates with same absorber coating as the sensor. For testing that laser beam is not above damage threshold	7E06031A	7E06031D	7E06031C
	Dimensions	26x26x1mm	76x26x1mm	76x26x1mm
Nova PE-C Adapter	The adapter plugs between the Nova D15 socket and the smart plug of the PE-C sensor to allow the Nova to operate with PE-C series sensors. See PE-C spec sheet for details.	7Z08272		
PE-C to PE Size Adapter	The newer PE-C series sensors have a Ø62mm diameter. The older PE series sensors have a Ø85mm diameter. This adapter allows using the PE-C type sensors in jigs and setups that were originally designed for PE sensors.	7Z08273		
N Polarity Power Supply/Charger AC/DC 12V 2A N-2.1x5.5	For FPE80BF-DIF-C sensor (1 unit supplied with the sensor)	7E05029		