

## 1.3.6 Energy Sensors Accessories

### 1.3.6.1 Accessories for Pyroelectric Sensors

**Fiberoptic Adapter for Pyroelectric Sensors**



**Oscilloscope Adapter for Pyroelectric Sensors**



**Damage Threshold Test Slides**



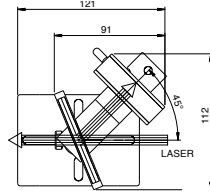
**Shock Absorbing Mounting Post**



**Heat Sink for PE-C Series Sensors**



**Beam Splitter Assembly**



**Nova PE-C Adapter**



**IR Phosphor Glass**

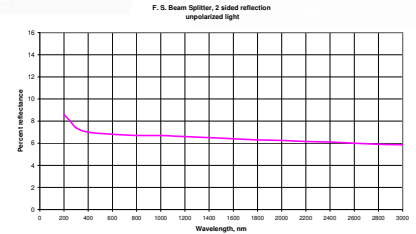


**PE-C to PE Size Adapter**



#### Beam Splitter Specifications

Material	UV grade fused silica
Spectral range	0.19 - 2.2 $\mu$ m
Aperture	$\phi$ 60mm
Damage threshold for pulses	< 10ns PW >300 $\mu$ s PW 5J/cm <sup>2</sup> >200J/cm <sup>2</sup>
Fraction split off	See graph



Accessory	Description	Part number
Heat Sink	Heat sink that screws onto rear of PE-C series sensors and allow working at over 50% higher average powers.	7Z08267
Shock Absorbing Mounting Post	Post with rubber encased thread to isolate sensor from vibration and prevent false triggering at low energy levels.	7Z08268
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.	1Z11012
Damage Threshold Test Plates	Test plates with same absorber coating as the sensor. For testing that laser beam is not above damage threshold (1 such plate is included with sensor package).	Metallic type BF type 7E06031A 7E06031D
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 detector
PD10 / PD10-pJ / PD10-IR-pJ		7Z08236 10mm
PE9 / PE9-F		7Z08231 10mm
PE50-C / PE50BF-C		7Z08270 15mm
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
All PE Sensors		7Z08227 7Z08226 7Z08229 1G01236
Beam Splitter Assembly	Beam Splitter Assembly to measure pulsed laser sources too energetic for direct measurement. Use 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.	
Beam Splitter Assy		7Z17001
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 $\phi$ 62mm diameter. The older PE series sensors have a $\phi$ 85mm diameter. This adapter allows using the PE-C type sensors in jigs and setups that were originally designed for PE sensors.	7Z08273
IR Phosphor Card	Glass slide (75x25mm) with phosphor coating (25x50mm) that visualizes spectral region 810-860nm, 900-1100nm and 1500-1600nm. Stands up to 1KW/cm <sup>2</sup> and 0.5J/cm <sup>2</sup> . Self actuating, does not need charging from light source.	7F01235A