

1.2.4 Energy Sensors Accessories

1.2.4.1 Accessories for Pyroelectric Sensors

Fiberoptic Adapter for Pyroelectric Sensors



Beam Splitter Assembly



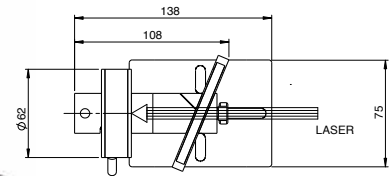
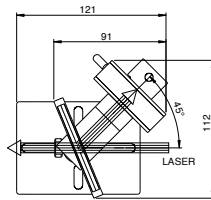
Beam splitter installed – reflected beam on sensor

Oscilloscope Adapter for Pyroelectric Sensors



Beam Splitter removed – direct beam on sensor

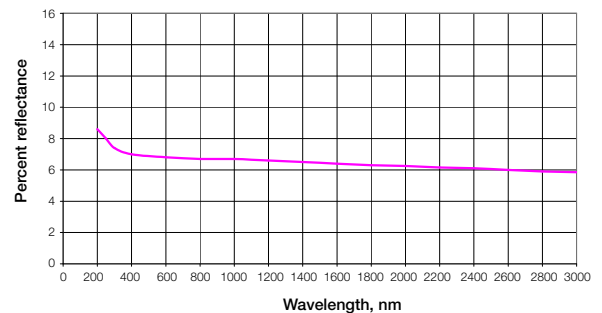
Heat Sink for PE-C Series Sensors



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 | | | |