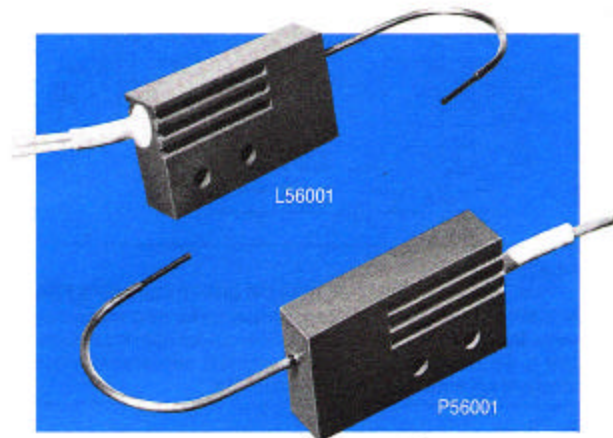


THRUBEAMS

Flexible Snout Fiber Optic Pair L56/P56 Series

Features:

- Rated Separation: .50 in.
- Beam Diameter: .030 in.
- Smallest Detectable Object: .010 in.
- Formable snout
- Snout lengths available to 12 in.
- High temperature tip operable up to 200°C
- Detects minute objects
- Works in places normally inaccessible to other thrubeams



Description:

The L56/P56 Series is a thrubeam combination in subminiature size, designed to detect small targets with extreme accuracy. A specially selected lamp and matched photodetector are mounted into strong aluminum housings.

The semirigid snouts containing the fiber bundles can be bent

easily by hand to position the tips for alignment and are self-retaining. The tips are hardened stainless steel to enable clamping with a nylon set screw. The aluminum backbody acts as heat sink to minimize sensor drift.

Typical Applications:

- Counting small objects
- Detecting component leads
- Precise edge detection
- Registration mark detection
- Wire break detection

Specifications: (at 25°C)

LIGHT SOURCE—LAMP

Input 5.0 VDC, 115 mA

LIGHT SOURCE—LED

Input 100 mA max. with resultant voltage drop of 1.1 to 1.7 VDC; derate at 1 mA per degree above 25°C ambient

Modulated Input 1 A max., 10% duty cycle at 1 kHz min.

Reverse Voltage 2 V max.

Spectral Emission 940 nm peak

BODY Aluminum/plastic composite—black for lamp, red for LED units

TEMPERATURE Operating: Body 0° to 50°C

Tip -40° to 200°C

Storage: -40° to 50°C

LEADS 2 cond. 26 AWG., teflon covered cable,

6 ft. long. Type A

PHOTODETECTOR

Operating Voltage 20 VDC max.

Response Time See Response Time Chart under Technical Information

Spectral Response 910 nm peak

FILTER (optional) Transmits less than 5% at 750 nm and less than 0.1% at 700 nm

BODY Aluminum/plastic composite—blue color

TEMPERATURE Operating: Body 0° to 50°C

Tip -40° to 200°C

Storage: -40° to 50°C

LEADS 2 cond. 26 AWG., teflon covered cable

with shield, 6 ft. long. Type B