

FASCO INDS/ SENISYS

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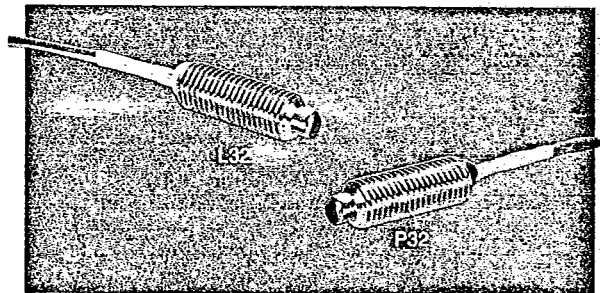
THRUBEAMS

General Purpose

L30/P30 Series

Features:

- Rated Separation: 3 to 24 in.
- Beam Diameter: .09 to .12 in.
- Smallest Detectable Object: .02 to .04 in.
- Plastic lens
- Small size
- Interchangeability within series



Description:

The L30/P30 Series is a family of compatible general purpose thrubeams. Any L30 light source may be used with any P30 photodetector. The units offer similar performance in a variety of body sizes, styles and materials. All units have metal housings, lenses and epoxy sealing.

Several L30/P30 Series models are available with several options such as protective sheathing and/or filters which block visible light.

Engineering specifications will vary with the models actually used; refer to Model Selection Guide.

Typical Applications:

- Parts counting
- Edge control
- Detection of small parts
- Web break

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 Stainless steel or brass; see Model Selection Guide

TEMPERATURE Operating: 0° to 70°C
Storage: -40° to 70°C

LEADS 2 cond. 24 ga., teflon covered cable, 2 ft. long, Type A

PHOTODETECTOR

Operating Voltage 20 VDC max.

Response Time See Response Time Chart under *Technical Information*

Spectral Response 910 nm peak

BODY Brass

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

TEMPERATURE Operating: 0° to 50°C—standard units
Storage: -40° to 50°C

LEADS 2 cond. 26 ga., teflon covered cable with shield, 2 ft. long, Type B

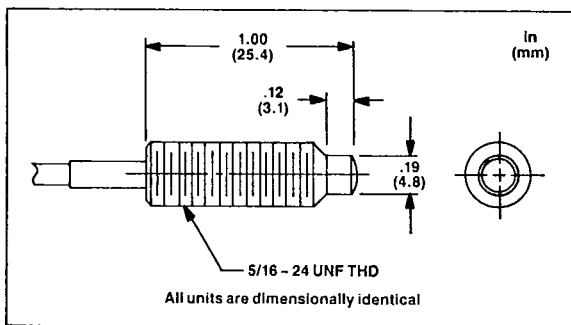


A Senisys Company
Plano, Texas 75075

L30/P30 Series

T-41-01

Dimensions:



Variations:

LEADS

Extra lead lengths available. See pg. 123.

Options:

PROTECTIVE SHEATH

Can be factory installed over the standard teflon covered leads by adding a suffix as follows:

- M For square locked galvanized steel with black PVC jacket, 9/32" O.D. Example: L32001-M
- S For armor, square locked stainless steel, 3/16" O.D. Example: L32001-S

Compatibility With Controls:

The L30/P30 Series is compatible with all Skan-A-Matic controls except modulating controls which are used with LED light sources only. For high speed operation use the T41300 High Speed Amplifier.

The LED light source utilizes a 100 mA Light Emitting Diode. A 39 ohm, 1 W current limiting resistor is supplied and must be used with Skan-A-Matic controls furnishing 5 VDC for light source power. With modulating controls such as our R42/T42 and R43/T43, no current limiting resistor is used.

Model Selection Guide:

LIGHT SOURCE

Part #	Light Source	Body	Rated* Separation	Beam Diameter	Smallest Detectable Object
L32001	Lamp	Brass	24"	.12"	.04"
L32004	LED	Stainless	3-10"***	.09"	.03"

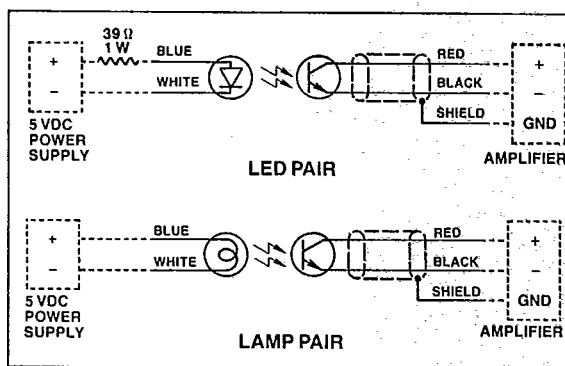
*When used with P30 Photodetectors and Skan-A-Matic electronic controls.

**L32004 will operate with P32011 and P32013 photodetectors at 10" and with the P30011, P31011, P34021 and P34071 at 3".

PHOTODETECTOR

Part #	Operating Voltage	Body	Filter	Beam Diameter	Smallest Detectable Object
P32011	20 VDC max.	Brass	No	.12"	.04"
P32013	20 VDC max.	Brass	Yes	.12"	.04"

Wiring Diagram:



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