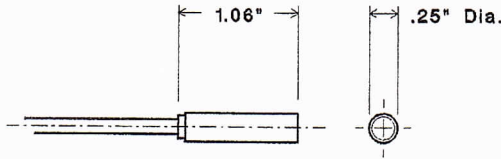


DIMENSIONS



DESCRIPTION

Photocraft "D" Series Light Sources and Receivers are a quality line of miniature photo-electric components intended primarily for industrial OEM applications. They incorporate a source or sensor element, optics, and cable, and are housed in a rugged, easily mounted package. Each unit is pre-aligned and pre-tested to ensure that it consistently meets your requirements. The photo units are made for use with AC, DC, or pulsed circuitry and may be used with other components, such as amplifiers and power supplies, to provide a complete system.

All "D" Series units are supplied with a six foot shielded cable as standard. Other cable lengths are available.

MODELS

Receivers:

PTRH - High speed Photo-Transistor Receiver units (sensors). Receivers have black cables, all other units have gray cables.

Light Sources:

IILS -Infrared LED Light Source, 40 ma max. Available with or without internal current limiting resistor.

VLSH - High Efficiency Visible LED Source, 25 ma max. Available with or without internal current limiting resistor.

CLS - Incandescent Light Source, 115 ma. Available for 5 or 6 volts AC or DC.

SPECIFICATIONS

Mechanical:

Dimensions: .25" diameter by 1.06" length housing

Materials:

- Body: Aluminum, anodized
- Epoxy sealed
- Lens: Acrylic

Cable: 6 ft. Standard length

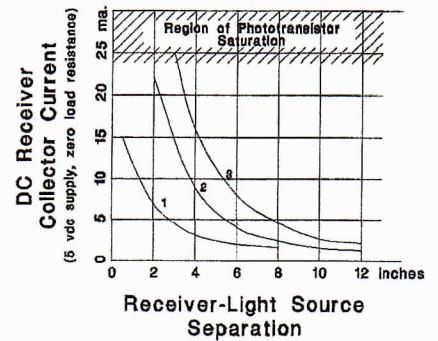
- PVC Jacket
- Shielded

Environmental:

Operating temperature (T_o): 0° to 70° C

Storage temperature (T_s): -40° to +85° C

Typical PTRH-D Receiver Response to Various Light Sources



Curve	Light Source
1	VLSH-D0 @ 20 ma.
2	IILS-D0 @ 40 ma.
3	CLS-D5 @ 115 ma.

ORDERING INFORMATION

Receivers:

PTRH-D contains a high speed, high sensitivity NPN silicon photo-transistor for use with DC or pulsed circuits. Ratings: $V_{ce} = 50v$ max; $P_{disp} = 50$ mw @ 25°C; $R_t = 8\mu sec$ typ. Typical operating range is up to 2 ft. pulsed.

PTRH-DF is identical to the PTRH-D, but includes an infrared filter which effectively blocks ambient fluorescent light.

PTR-DA is identical to the PTRH-D, but includes a .04" diameter aperture that restricts the field of view for detecting small objects.

Light Sources:

Model	Description	Features (see description below)	Power Supply	Max. continuous current (ma)	Max. reverse voltage (vdc)	Output wave-length (nm)	Rated Life (hours)
IILS-D0	Infrared LED			40	5	940	
IILS-D5	5 volt infrared LED	R, D	5 vdc	40	30	940	
VLSH-D0	Visible LED			25	5	635	
VLSH-D5	5 volt visible LED	R, D	5 vdc	25	30	635	
CLS-D5	5 volt incandescent		5 vac or vdc	115			40,000
CLS-D6	6 volt incandescent	R	6 vac or vdc	100			40,000

Features:

R = Unit contains current limiting resistor.

D = Unit contains reverse protection diode.