



SpotOn Analog

Analog Optical Beam Positioning & Power Measurement



- Measures laser displacement in real time, at a rate of up to 30 KHz bandwidth
- Measurement of fast steering mirrors
- Monitors vibration and deflection at high bandwidth from long stand-offs
- Perfect for closed loop applications

Specifications

Detector	Si PSD	Output voltage range (position X, Y)	± 5V
Sensor size	4x4 mm model SPOTANA4, 9x9 mm model SPOTANA9	Output voltage range (Power)	≤ 10V
Operating temperature	0° - 50° C	Included Power Supply Specifications	100 - 240 VAC typical
Wavelength	350 - 1100 nm	Input frequency	50-60 Hz
Resolution	Better than 1 mV for CW beams, better than 5 mV for pulsed beams	Output power	10 W
Conversion factor	1 mV = 1 μm	Output Voltage	±18VDC
Input power range	30 kHz	Safety Standard	UL1950/EN60950 Class II
		EMI	Meet EN55022/FCC Class B

Parameters	High Amplification modules (Low light Appl.)	Low Amplification modules
Max. Operating laser power (HeNe)	1 μWatt – 250 μWatt	10 μWatt – 2500 μWatt
Response Time (T)	<60 μsec	<30 μsec
Resolution	Better than 1 mV	Better than 1 mV

Ordering Information

A complete system based on a PSD sensor (Lateral Effect type) with 3m long attached cable, an electronics box and power supply.

- SPOTANA-4-L:** System with 4x4mm PSD, Low amp.
- SPOTANA-4S-L:** System with 4x4mm PSD, Low amp, High Position Resolution.
- SPOTANA-4-H:** System with 4x4mm PSD, High amp.
- SPOTANA-4S-H:** System with 4x4mm PSD, High amp, High Position Resolution.
- SPOTANA-9-L:** System with 9x9mm PSD, Low amp.
- SPOTANA-9S-L:** System with 9x9mm PSD, Low amp, High Position Resolution.
- SPOTANA-9-H:** System with 9x9mm PSD, High amp.
- SPOTANA-9S-H:** System with 9x9mm PSD, High amp, High Position Resolution.

Accessories

- NG4 Filter:** NG4 filter in mounting ring, 3/4" – 32 thread
- NG9 filter:** NG9 filter in mounting ring, 3/4" – 32 thread
- Hood:** 55mm long hood for ambient light suppression

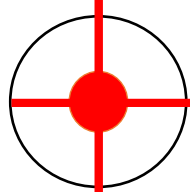
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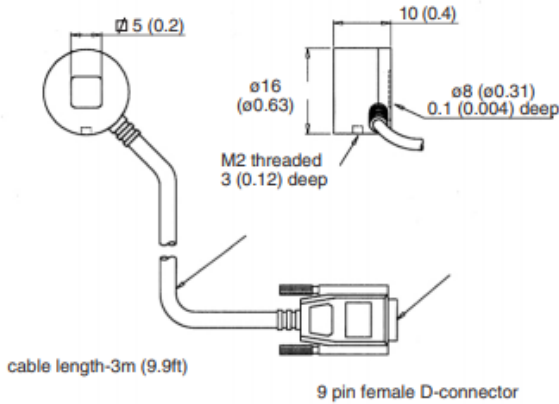




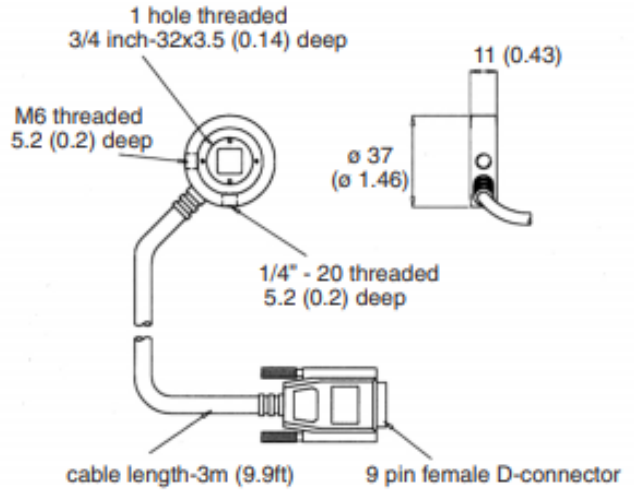
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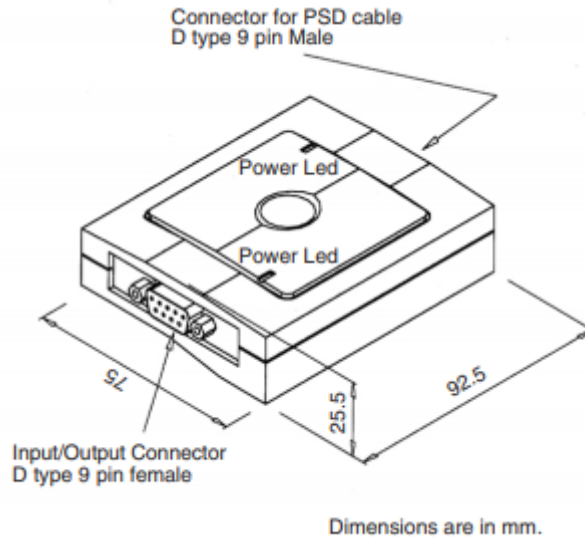
4x4 mm Head (120gr with cable)



9x9 mm Head (140gr with cable)



Electronics Box (125gr)



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