

# 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

Power supply voltage (included)	Si PSD
Sensor size	4x4 mm model SPOTANA4, 9x9 mm model SPOTANA9
Operating temperature	0° - 50° C
Wavelength	350 - 1100 nm
Resolution	Better than 1 mV for CW beams, better than 5 mV for pulsed beams
Conversion factor	1 mV = 1 $\mu$ m
Response time	16 $\mu$ s (4x4), 33 $\mu$ s (9x9)
Input power range	Analog - 60 kHz (4x4), 30 kH (9x9)
Output voltage range (position X, Y)	$\pm$ 5V
Output voltage range (Power)	$\leq$ 10V

Included Power Supply Specifications	100 - 240 VAC typical
Input frequency	50-60 Hz
Output power	10 W, $\pm$ 18V
Safety Standard	UL1950/EN60950 Class II
EMI	Meet EN55022/FCC Class B

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

### Accessories

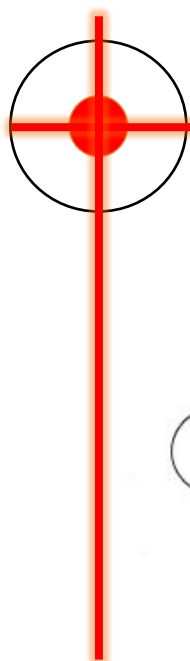
- NG4 Filter:** NG4 filter in mounting ring,  $\frac{3}{4}$ " – 32 thread
- NG9 filter:** NG9 filter in mounting ring,  $\frac{3}{4}$ " – 32 thread
- Hood:** 55mm long hood for ambient light suppression

**DUMA OPTRONICS LTD.**

Website: <http://www.dumaoptronics.com>

E-mail: [sales@duma.co.il](mailto:sales@duma.co.il)

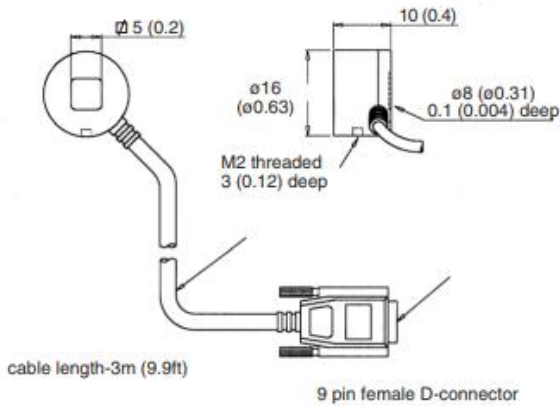
December 2019



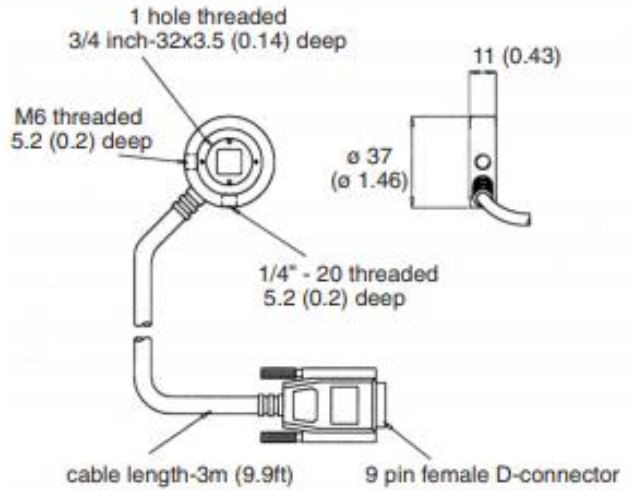
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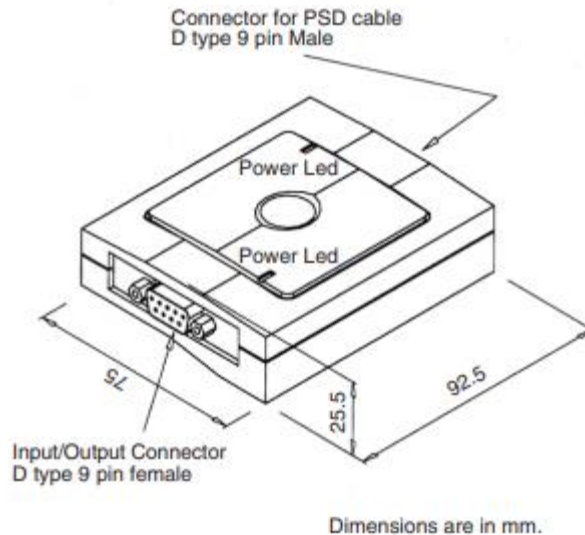
### 4x4 mm Head (120gr with cable)



### 9x9 mm Head (140gr with cable)



### Electronics Box (125gr)



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