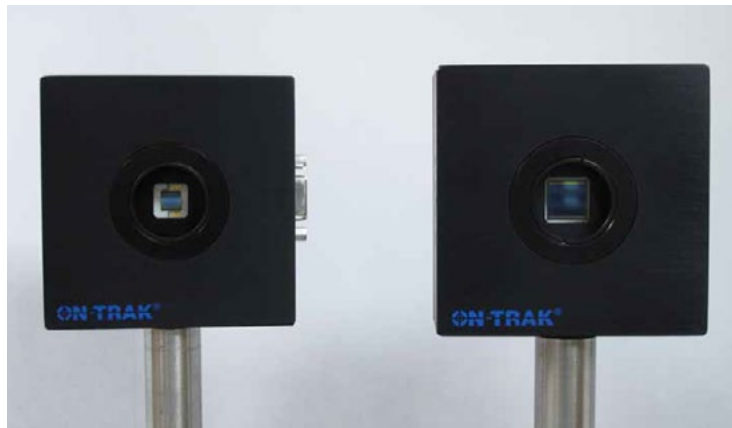


SPC PSM Series

**SPC PSM
High Speed Position
Sensing Module**



The SPC PSM High Speed Position Sensing Module is a fully packaged PSD with an integrated high speed signal processing circuit.

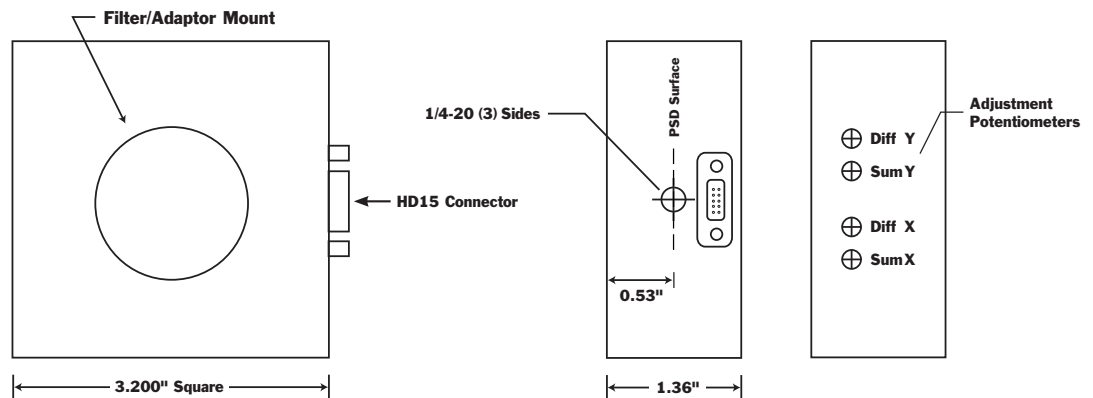
The PSD outputs bipolar voltages representing the position and intensity of the centroid of a light spot on the PSD at bandwidths up to 400kHz. Inputs are available for external adjustment of offset voltages. The SPC PSM is offered in a variety of one dimensional or two dimensional sizes.

Features

- Integrated Electronics with 400kHz Bandwidth Response
- Silicon Linear: 400nm – 1100nm
- Silicon Duolateral: 400nm – 1100nm
- Removable Filter Holder Adapter
- Standard ¼" - 20 Mounting Holes
- Adjustable Offsets – Diff X, Diff Y, Sum X, Sum Y
- HD15 Connector (5' molded HD15 cable included)

SPC PCM Specifications

Model	Active Area (mm)	Detector Type	Wavelength Range	Typ. Resolution	Typ. Linearity
1L2.5 SPC PSM	2.5 x 0.6	Linear Silicon	400-1100 nm	62.5 nm	0.1%
1L5 SPC PSM	5.0 x 1.0	Linear Silicon	400-1100 nm	125 nm	0.1%
1L10 SPC PSM	10.0 x 2.0	Linear Silicon	400-1100 nm	250 nm	0.1%
2L2 SPC PSM	2.0 x 2.0	Duolateral Silicon	400-1100 nm	50 nm	0.3%
2L4 SPC PSM	4.0 x 4.0	Duolateral Silicon	400-1100 nm	100 nm	0.3%
2L10 SPC PSM	10.0 x 10.0	Duolateral Silicon	400-1100 nm	250 nm	0.3%



HD15 Connector Pin Out

Pin no.	Input/Output	Information
1	+15 V	Voltage input
2	Gnd	Ground
3	-15 V	Voltage input
4	N.A.	No connection
5	N.A.	No connection
6	N.A.	No connection
7	Amp Y1	Amp Y1
8	Amp Y2	Amp Y2
9	Diff Y	Amp Y1 – Amp Y2.
10	Sum Y	Amp Y1 + Amp Y2
11	Amp X1	Amp X1
12	Amp X2	Amp X2
13	Diff X	Amp X1 – Amp X2
14	Sum X	Amp X1 + Amp X2
15	N.A.	No connection

SPC PCM Accessories

Model	Description
F25-632.8	25 mm optical filter. 632.8 nm, +2.0/-0 nm. FWHM 10 + 2 nm. 50% transmittance
F25-635	25 mm optical filter. 635 nm, +5.0/-0 nm. FWHM 10 + 2 nm. 50% transmittance
F25-670	25 mm optical filter. 670 nm, +3.0/-0 nm. FWHM 10 + 2 nm. 50% transmittance
F25-HA	25 mm Blank Filter Holder Adapter
CA-HDMM-5	5 foot molded cable. HD15 connector
PS-3	Post and Stand