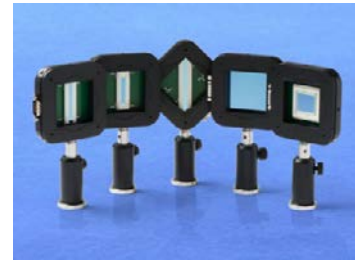




## PSDs in Mechanical Holder MH02

SiTek's high linearity PSDs are also available in a mechanical holder suitable for optical system setups. The mechanical holder MH02 has a size of 84 x 84 mm<sup>2</sup> and the PSD is easily accessed via a DSUB9 connector. It is designed to fit square 2" filters as well as standard optomechanical components, such as posts and cages stages. To minimize reflections it has a black anodized surface.

The holder is available with SiTek's PSDs ranging from 30 - 60 mm (1D) and 20 x 20 - 45 x 45 mm<sup>2</sup> (2D). SiTek's UV-enhanced PSDs can be delivered mounted in the PSD mechanical holder upon request.



PSD Holder MH02 selection

### Part number & Parameters

#### PSD Holder with 1-dimensional PSDs

##### General data

Position non-linearity +/-0,1%

| Part Number | Description | Active area (mm) | Detector resistance (kΩ) | Leakage current (nA) | Noise current (pA/√Hz) | Capacitance (pF) | Rise time resistance (μs) |
|-------------|-------------|------------------|--------------------------|----------------------|------------------------|------------------|---------------------------|
| S1-0334     | 1L30_MH02   | 30 x 4           | 50                       | 150                  | 0,7                    | 90               | 1                         |
| S1-0333     | 1L45_MH02   | 45 x 3           | 115                      | 110                  | 0,4                    | 105              | 2,7                       |
| S1-0335     | 1L60_MH02   | 60 x 3           | 150                      | 150                  | 0,4                    | 135              | 4,5                       |

#### PSD Holder with 2-dimensional PSDs

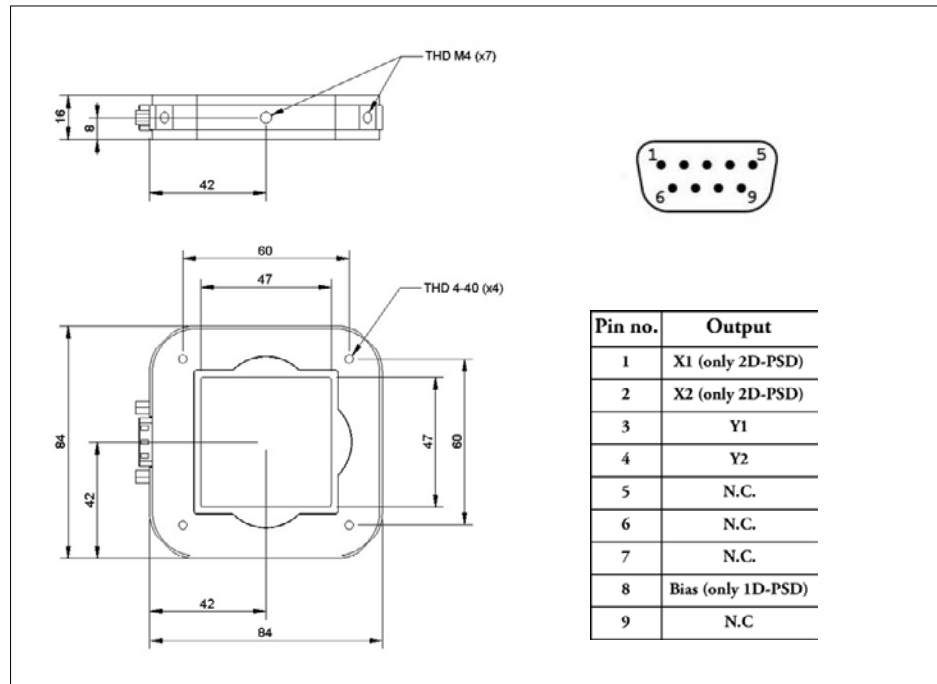
##### General data

Position non-linearity +/-0,3%

Detector resistance 10 kohm

| Part Number | Description | Active area (mm) | Leakage current (nA) | Noise current (pA/√Hz) | Capacitance (pF) | Rise time (10-90%) (μs) |
|-------------|-------------|------------------|----------------------|------------------------|------------------|-------------------------|
| S2-0419     | 2L20_MH02   | 20 x 20          | 200                  | 1,5                    | 360              | 1,6                     |
| S2-0440     | 2L30_MH02   | 30 x 30          | 200                  | 1,3                    | 730              | 3,3                     |
| S2-0418     | 2L45_MH02   | 45 x 45          | 400                  | 1,5                    | 1600             | 7,0                     |

\* Active area is limited by Ø23 mm aperture



The PSD connections are accessed via a DSUB9 connector and the holder can be connected to SiTeks Signal Processing System SEEPOS with the supplied cable.

**Optomechanical accessories suitable for SiTek PSD Holder MH02**

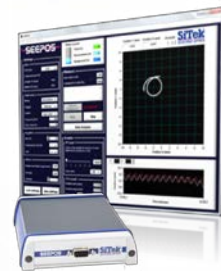
SiTek PSD holder is designed to fit standard optical and optomechanical components like posts, filters, filter holders, lens tubes etc. Some suitable accessories, which often can be found at your local optomechanical supplier, are listed below and further information can be provided by your local distributor or SiTek Electro Optics AB.

- Optical posts with M4 thread
- Square 2" optical filters
- 60 mm cage system (rods with #4-40 tread)



**PSD Holder MH02 suits SEEPOS perfectly**

For most position measurement applications the SiTek SEEPOS system offers a complete and easy-to use solution. It is a versatile PSD signal processing tool optimized for development of PSD systems. High speed PSD electronics combined with digital signal processing and high speed USB data transfer makes it possible to build your own powerful measurement system. All parameters, such as PSD bias voltage, amplifier gain, the use of analog and digital filters etc., are easily controlled from the software and light spot position is continuously displayed both in XY and X-t, Y-t graphs.



For further information contact your local distributor or SiTek Electro Optics AB.

Information in this data sheet is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications are subjected to changes without notice.

Reg.No: PSD Holder MH02.C Date: 2019.12.04

01/20 / V03 / MatHF / sitek/psd\_holder\_mh02