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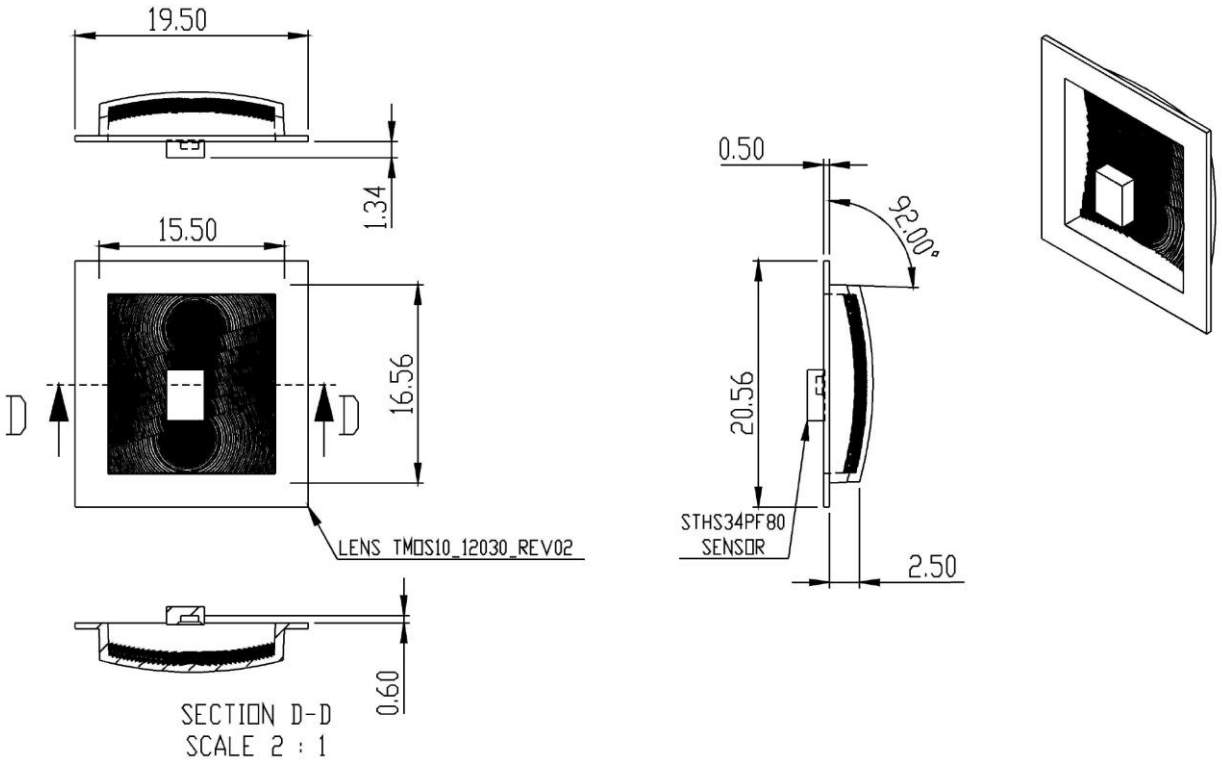
Lens TMOS10-12030_Ver 2 for TMOS EVK

(Patented Lens for wall-mounted movement/presence detector, optimized for TMOS sensor)

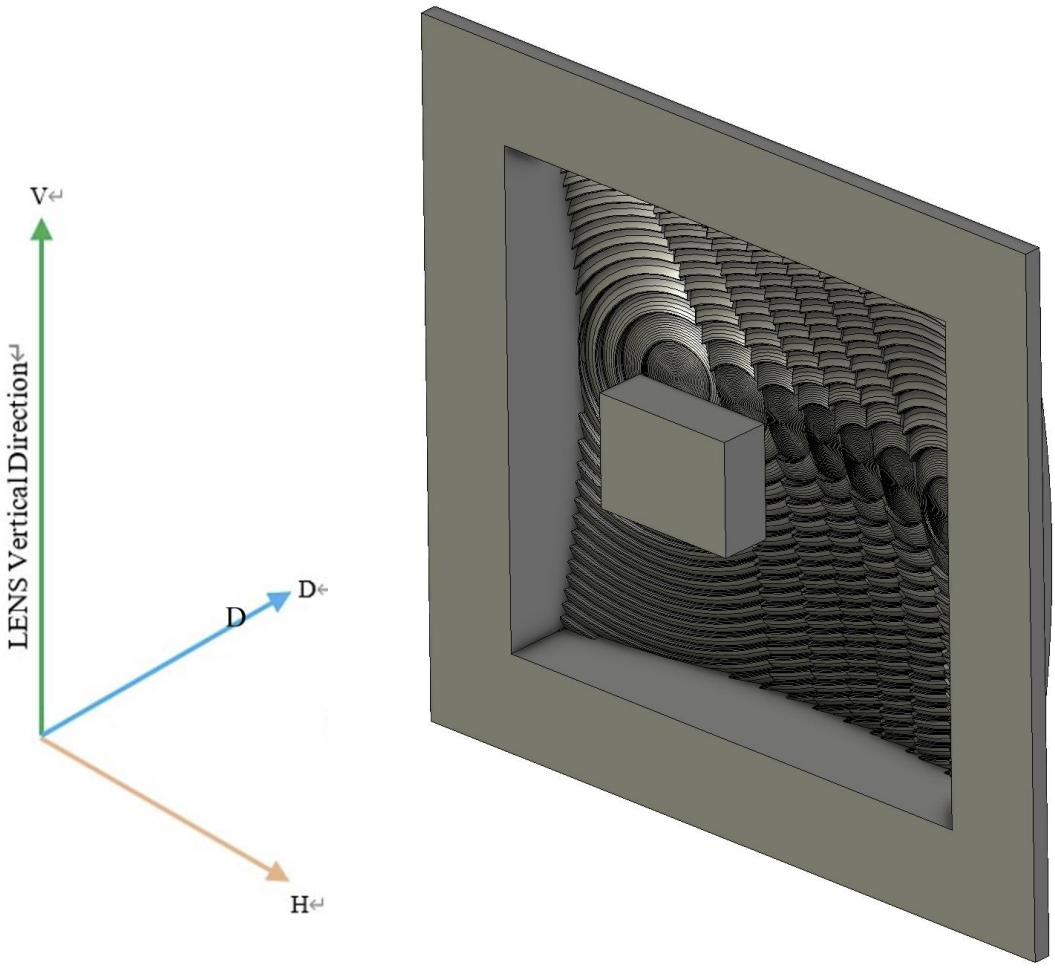
This document specifies TMOS sensor **STHS34PF80** from STMicroelectronics, PCB **TMOS_34PF80Rev2.1_noled_FrontCable** and Lens **TMOS10-12030_Ver 2**from Fresnel Factory Inc.

1. Dimension and orientation of TMOS10-12030_Ver 2 lens



To download 2D drawing above, see 4. Related documents

To download 3D drawing above, see 4. Related documents



STHS34PF80 sensor

Please Note, that Center of Optical Window of the Sensor must be coincident with axis of symmetry of the Lens

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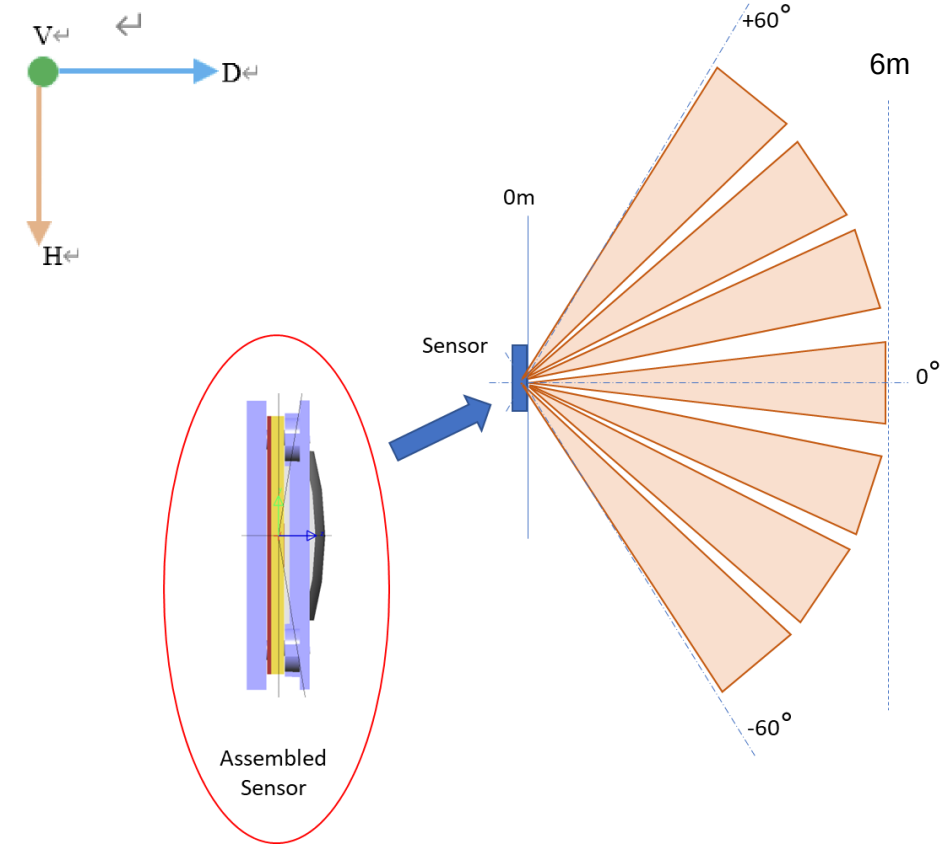
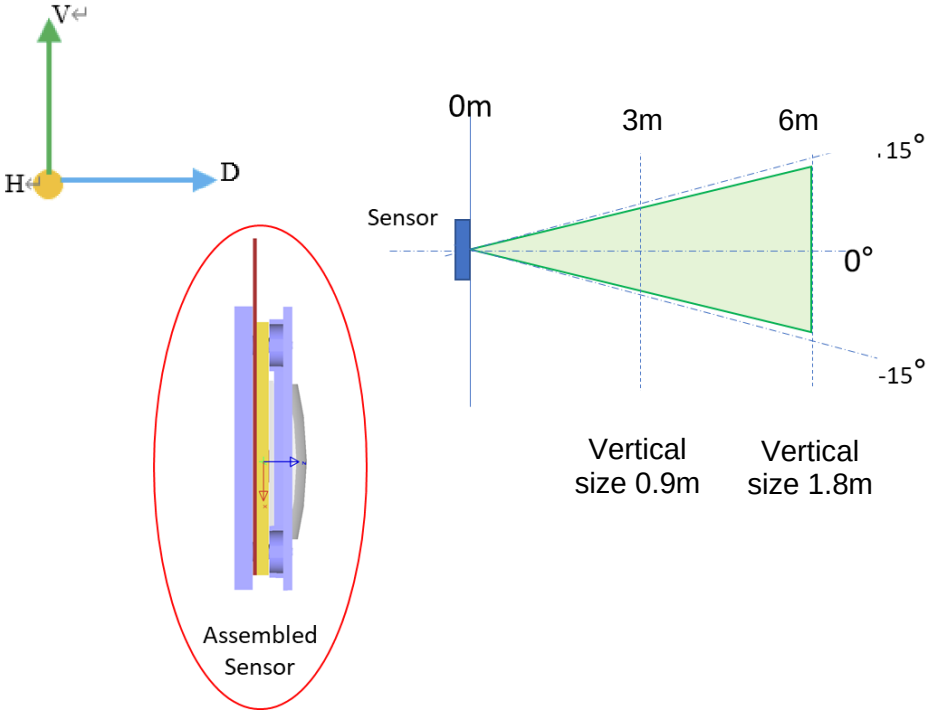
2. Detectable Range and Field of View

HORIZONTAL Direction



VERTICAL Direction



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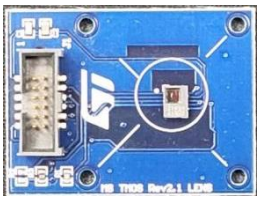
3. Housing for EVK with PCB (TMOS_34PF80 Rev2.1_noled_FrontCable)

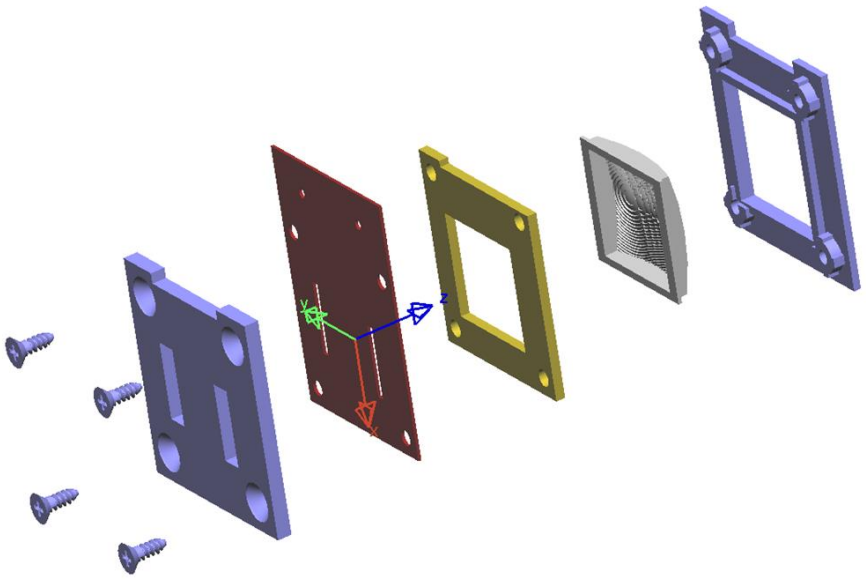
To download 3D STL file for 3D printing below, see 4. Related documents

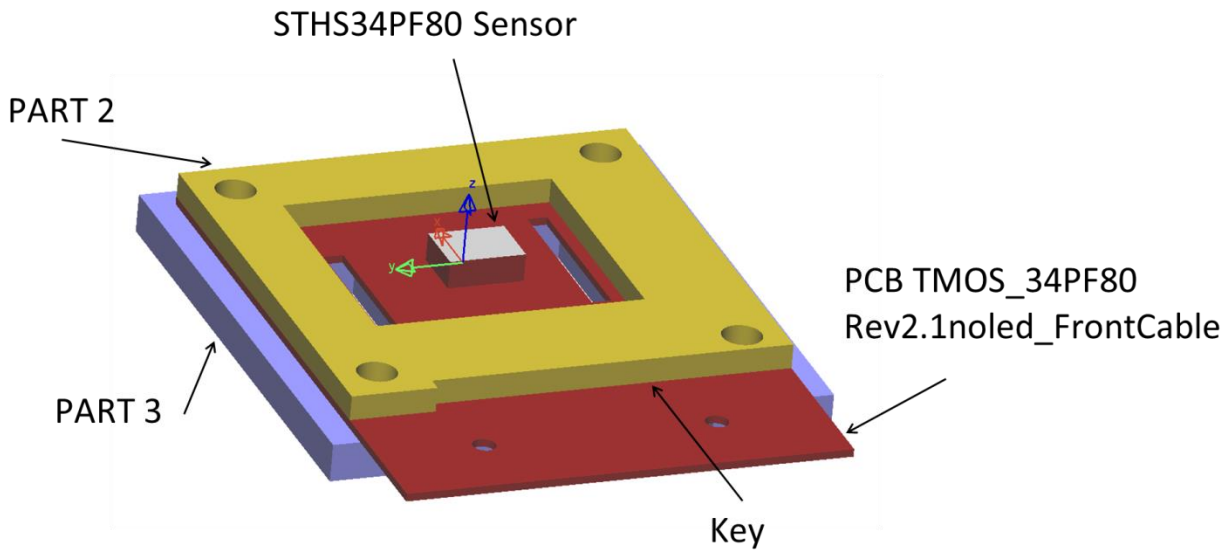
You can also purchase housings without lens from **here(Click)**.

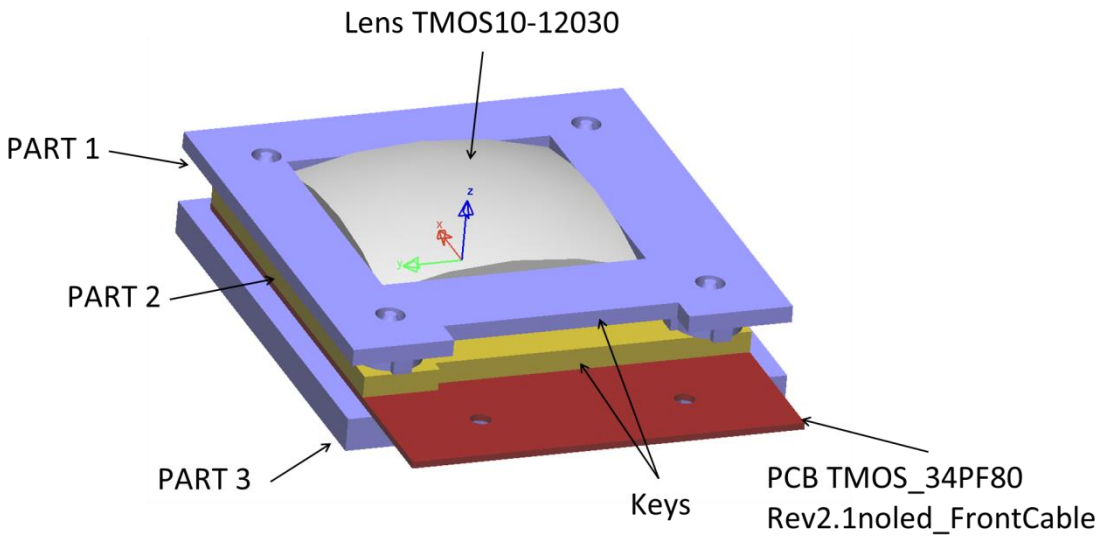
The housing consists 3 Parts with Directional Keys. All keys must be faced to the PCB connector (see picture below). Housing fastened by 4 Philips self-tapping Screws M2x8.



PCB TMOS_34PF80Rev2.1_noled_FrontCable







4. Related documents

- 2D drawing

https://drive.google.com/file/d/1KRWnhTdmAdIVd_EzZE9_JRmTw5zJ-zE8/view?usp=sharing

- 3D drawing with geometric information between lens and sensor

https://drive.google.com/file/d/1jxZSI298dnqak0WwkGXdGBJSVZ53CpCp/view?usp=sharing

- 3D printing housing
  - Part 1

https://drive.google.com/file/d/1gRLProJSniz-w73UoOP3jUCJCDAWmtuV/view?usp=sharing

  - Part 2

https://drive.google.com/file/d/1ifLi_9dXg2PMuxtvUOR00OGqNd8uZ_bV/view?usp=sharing

  - Part 3

https://drive.google.com/file/d/1kX6LlXAk8CNt7Qe363yhO-WZ90OMo1x0/view?usp=sharing

- Contact
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