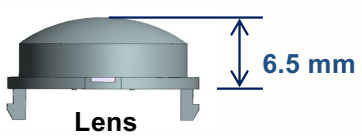
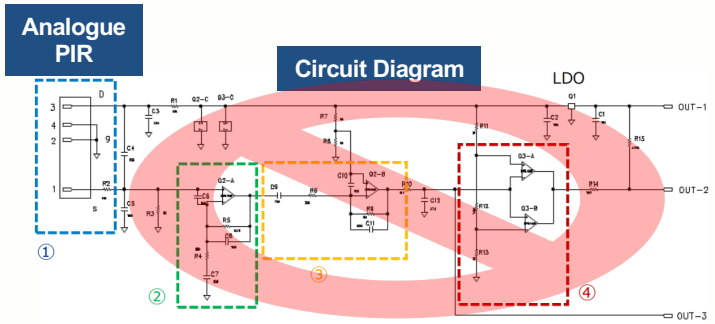
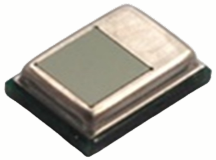
SS-I – Digital PIR Proximity Detection

- SS-I series sensors bring an added level of simplicity to monitoring movement.
- The sensor output connects to an I^2C communications port of any micro controller.
- All analogue electronics are contained within the sensor.
- The sensor creates a small-scale pyroelectric signal that is then amplified, filtered, and digitized into a logic **High** or logic **Low** that is directly compatible with any microprocessor.
- Even better, the device is programable, meaning it can be **programmed-on-the-fly** should the engineer need to change sensor values (**thresholds, delay times and filter settings**)

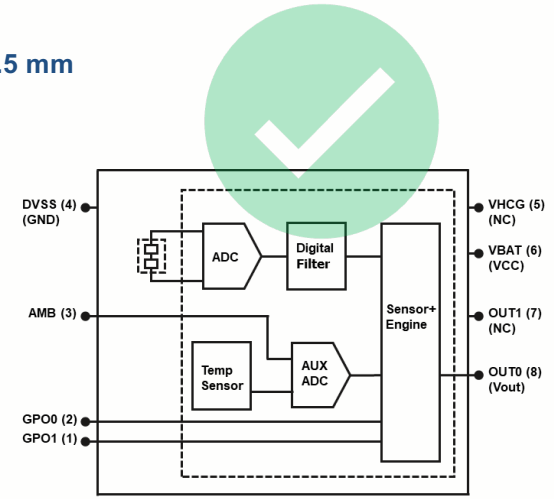
- Lenses are available for different range applications







SS-I
(Built-in ASIC)

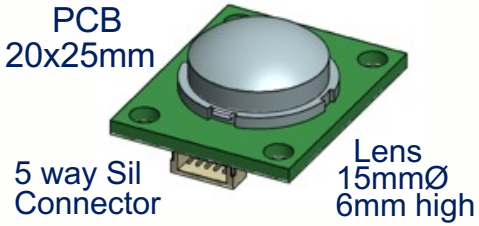


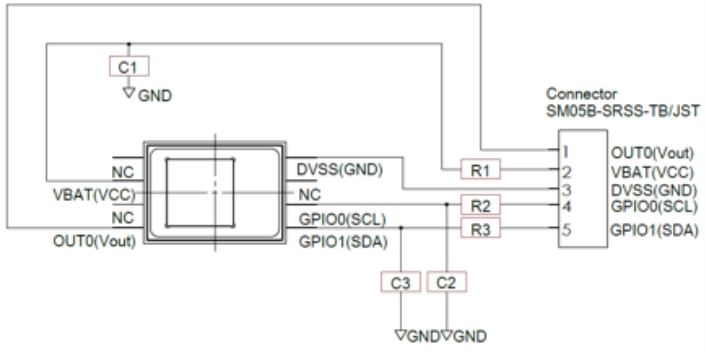
SS-I – DIGITAL PIR

- Most PIR sensors are analogue devices that require additional electronic circuitry,
- Such Analogue sensors bring extra complexity and extra costs, both from a PCB design & BoM costs

KEY Benefits:

- ✓ **A single PIR device with a direct digital output**
- ✓ **Lower operating current than equivalent PIR and analogue devices combined**
- ✓ **Smaller PCB footprint than combined solution**
- ✓ **Cost competitive with most PIR devices on market**
  This part wins hands down the cost competition for total solution
- ✓ **Easy Fix Module available for simple and fast engineering validation**
- ✓ **Simply connect the module to your micro controller**





Setting & Typical Functions

- **PIR trigger settings**
  99.2 – 1581 µV
- **Delay off time settings**
  3 seconds – 30 minutes
- **High-pass filter frequency change**
  0.4 or 0.2 Hz
- **Low-pass filter frequency**
  7 Hz
- **Temperature data read settings**
  Reading of temperature within sensor