



**PRESS RELEASE**  
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## Pyroelectric IR & Thermopile Surface Mount Detectors

The new SMD (surface-mount design) pyroelectric infrared detectors and SMD thermopiles from **Excelitas** are taking infrared sensing innovation to a whole new level, enabling automated high-volume production for major sensing applications from intrusion alarm to automatic light switch and even the latest high-tech consumer devices.

### SURFACE-MOUNT DESIGN PYROELECTRIC DETECTORS

DigiPyro<sup>®</sup> is the one and only truly digital Family of Pyroelectric IR Detectors. The new PYD 5790 is a dual-element pyro in a ceramic-type SMD package that is 5mm<sup>2</sup> with a height of only 1.8mm; the smallest of its kind on the market. As a basis for comparison, dual-element DigiPyro models in TO-type housings are 4.2mm in height. **Warsash Scientific** also offer a traditional, analogue dual-element pyroelectric model in SMD housing, the PYD 5190.

### SURFACE-MOUNT DESIGN THERMOPILE DETECTORS

DigiPile<sup>™</sup> is the revolutionary, digital Family of Thermopile Sensors, designed specifically for non-contact temperature measurement. Joining DigiPile models in TO-46 and TO-5 metal housings, Warsash Scientific now offer the TPiS 1S 1253, the newest DigiPile in a ceramic-type SMD package. It is 5mm<sup>2</sup> with a height of only 1.8mm, the smallest of its kind on the market. Also available as an analogue thermopile detector in SMD housing, the TPiD 1S 0122 thermopile is equipped with a 100k $\Omega$  thermistor that can serve as a temperature reference for thermopile temperature compensation to further improve accuracy. These SMD Thermopile detectors deliver excellent thermal shock performance.

### KEY BENEFITS

- Available in analogue and digital models
- Surface-mount devices (SMD) well-suited for high-volume production of components on PCBs
- Allows for automated pick-and-place and solder reflow
- Very small size and compact design of new SMD components, as compared to traditional TO-type metal housings
- SMD housings available for both pyroelectric infrared detectors and thermopiles

For more information on surface-mount design pyroelectric and thermopile detectors, contact Warsash Scientific on +61 2 9319 0122 or [sales@warsash.com.au](mailto:sales@warsash.com.au).

