



Excelitas Technologies Introduces Miniature DigiPyro PYD 5731 for Smart Home and Intrusion Alarm Applications

Smallest Digital Pyroelectric Detector on the Market Enables Miniaturized Smart Devices



WALTHAM, Mass., September 8, 2021 – [Excelitas Technologies® Corp.](#), a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions, today introduced its [Miniature DigiPyro® PYD 5731 pyroelectric detector](#), offering the smallest footprint of any pyroelectric detector currently on the market. The PYD 5731's small size and superior performance make it ideal for applications where packing density, space constraints and product miniaturization require the smallest possible sensors, including integration with intrusion alarms and other smart home products using analog and/or digital detectors for indoor / outdoor uses.

The new PYD 5731 sensor has an integral temperature reference, and a state-of-the-art, low operation voltage of 1,8..3,6 V. It provides excellent shielding and communicates in one 2x14-bit digital output through its single-wire "Direct Link" interface with the hosting microprocessor. While standard pyroelectric detectors are typically mounted in a TO-5 metal package, the new PYD 5731 comes in a TO-46 package with only 5,5 mm diameter. The combination of digital output and metal shielded package provides an outstanding EMI immunity along with the known high radiation sensitivity of Excelitas' DigiPyro family.

"Our DigiPyro pyrodetectors are engineered to the smallest form factors available and provide high-performance motion detection, human presence monitoring and remote temperature measurement," said Fred Plotz, Product Manager, IR Sensing at Excelitas. "DigiPyro's advanced sensor intelligence, sensitivity and connectivity are enabling acceleration and growth in smart home and smart cities markets, fulfilling a variety of functions to improve machine-to-human interface in today's smart products. The newest, smallest DigiPyro detector allows even further miniaturization of sensor-dependent smart products in space-critical environments and applications."

DigiPyro sensors enable smart home/smart city systems to monitor and adjust HVAC temperatures, power lights on and off, activate security cameras and burglar systems, and enhance the intelligence and autonomy of home appliances. They are also used in gas and smoke detection systems, helping keep families safe.

For more information about the Miniaturized DigiPyro PYD 5731, please visit: <https://bit.ly/2YfbaJ6>.

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About Excelitas Technologies

Excelitas Technologies® Corp. is a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions to meet the illumination, optical, optronic,



imaging, sensing and detection needs of our OEM and end-use customers. Serving a vast array of applications across biomedical, scientific, semiconductor, industrial manufacturing, safety & security, consumer products, defense and aerospace sectors, Excelitas stands committed to enabling our customers' success in their many various end-markets. Our team consists of more than 7,000 professionals working across North America, Europe and Asia, to serve customers worldwide.

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Contacts:

Scott Orr
Senior Director of Global Marketing - Commercial
scott.orr@excelitas.com
+1 (781) 996-5925

Cheryl Reynhout or Jill Anderson
On Behalf of Excelitas Technologies Corp.
SVM Public Relations
excelitas@svmmarcom.com
+1 (401) 490-9700