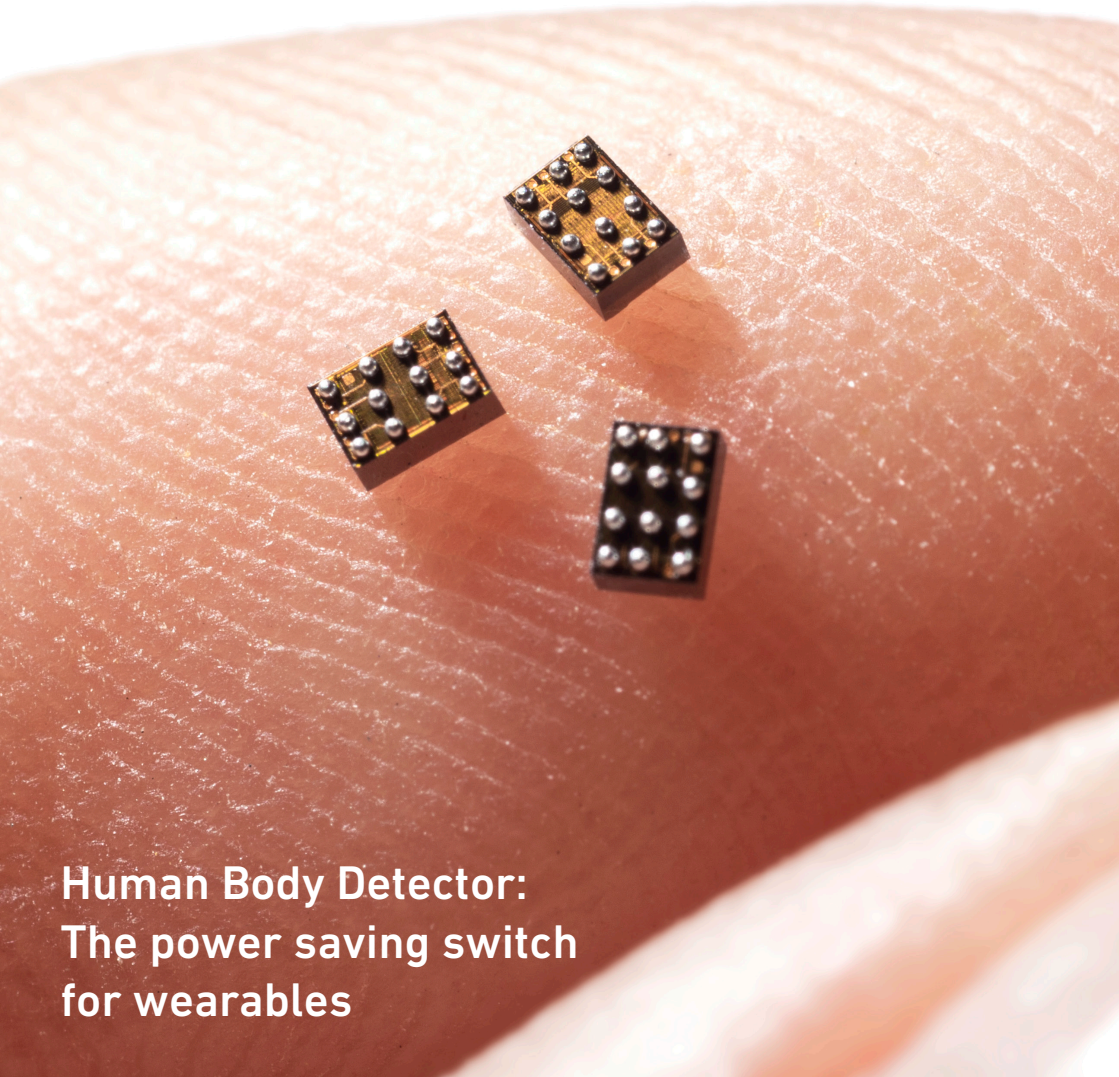
MICRODUL
Customized Swiss Microelectronics



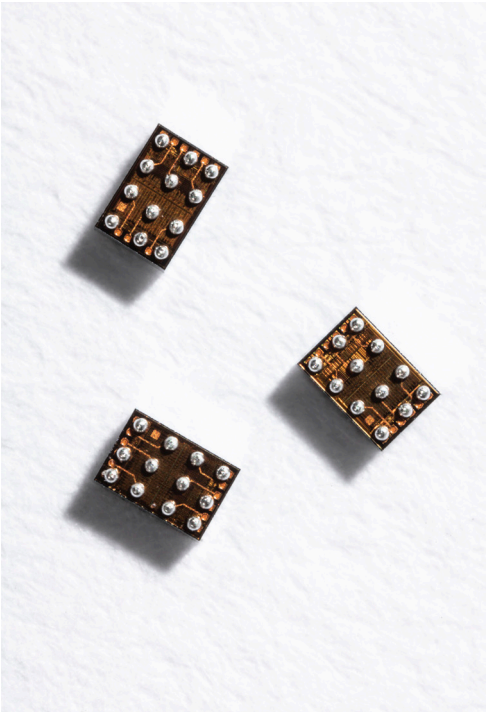
Human Body Detector: The power saving switch for wearables

Extending battery life for wearables

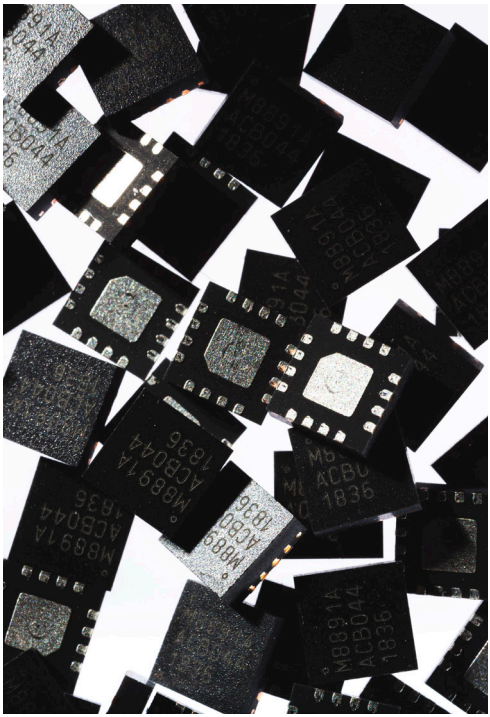
Wearables are the megatrend in the healthcare sector. They measure vital signs or monitor bodily functions and accompany more and more people through everyday life and leisure.

A long battery life is a decisive feature for all portable consumer products. This is especially true for healthcare technology products, but also for smart watches or wireless headphones.

Microdul's Human Body Detector (HBD MS8891) detects when a product is worn. When not in use, it can automatically switch off power-intensive functions, thereby significantly extending battery life and runtime.



The Human Body Detector by Microdul (HBD)



The sensor in casing

Everion®, the vital parameter wearable from Biofourmis, is equipped with the Microdul Human Body Detector

“We are delighted that Biofourmis has chosen our human body detector for their vital signs wearable Everion.”

Jörg Markwalder, CEO Microdul

Sensor technology from Microdul

The Human Body Detector is a capacitive sensor with extremely low power consumption (< 1µA). The sensor technology enables the system functions of a wearable product to be switched on, when worn and off when not, reliably and automatically.

About Microdul

Microdul AG is a privately owned Swiss company and an MBO from Philips Semiconductors founded in 1991. We manufacture modules especially for medical applications including active implants and we are both ISO9001 and ISO13485 certified.

Our Semiconductors group develops and supplies ultra-low-power, mixed-signal, custom products as well as standard products. We have extensive experience in IC development for temperature monitoring, capacitive sensing, power management and 32kHz timing.

Datasheets, application notes and ordering information are available on our website www.microdul.com.

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