

## **Sense the power of light: ams OSRAM presents innovative lighting and sensor solutions for medical and healthcare applications**

At electronica 2024 in Munich, [ams OSRAM](#) (SIX: AMS), a leading global provider of intelligent sensors and emitters, will be demonstrating how intelligent optical lighting and sensor solutions can make everyday life safer, securer, healthier, more comfortable and more eco-friendly.

ams OSRAM creates cutting-edge technologies that decode the language of the body and translate it into medical information.

The extensive portfolio for vital sign monitoring offers continuous measurement of heart rate, oxygen saturation and ECG in advanced smart watches and smart rings – around the clock and with optimum precision. Solutions include light emitting diodes such as the [SFH7018](#) MULTILED with its high overall radiant intensity and highly integrated analog front ends (AFEs), such as the [AS7058](#) with its extremely low power consumption which introduces body impedance measurement functionality for analysis of body composition. To further increase system efficiency, the chip LED photodiode SFH 2705 with around 27 percent improvement in relative sensitivity at 530 nm green, is an ideal counterpart to the emitter.

Temperature sensors with the greatest precision on the market enable accurate measurement of blood sugar levels and core body temperature, and also help athletes around the world optimize their training schedules to overcome physical limits. Temperature sensor [AS6221](#) measures skin temperature with an accuracy of  $\pm 0.09$  °C.

The ultra-compact [NanEye image sensor](#) and its associated evaluation platform provide the ideal basis for more accurate diagnosis and the most advanced endoscopy procedures.