

Sense the power of light: ams OSRAM presents lighting and sensor solutions for horticulture and for automation to improve industrial efficiency

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 is contributing to more sustainable and profitable horticultural solutions with its state-of-the-art growth stimulation and precise condition monitoring systems. Efficient horticulture LEDs such as the [OSCONIQ® P 3737](#) high-power LED deliver industry-leading performance, outstanding durability and a Q90 life of 102,000 hours. The OSCONIQ® P3737 from ams OSRAM significantly reduces greenhouse energy costs without affecting light output. Thanks to an industry-leading overall efficiency of 83.2% in the hyper red spectral range, luminaire manufacturers can customize the designs of their plant luminaires to achieve a higher photon flux of 6.13 $\mu\text{mol/s}$ while reducing energy consumption, leading to a significant increase in the rate of photosynthesis (PS rate), maximized crop yields and shorter harvest cycles. This advanced LED covers a wide range of requirements for controlled horticulture and is available in five different colors: Hyper Red (660 nm), Red (640 nm), Deep Blue (450 nm), Far Red (730 nm) and Horti White.

The optical force sensors allow for seamless integration of switches and pushbuttons under any surface and offer total freedom of design. The [TMF8806](#) dToF (direct Time of Flight) sensor from ams OSRAM has been designed for high-performance presence detection and extremely energy-efficient operation.