

Next generation ams light sensors to shrink smart phone apertures up to 50%

TMD2620 proximity sensor and TMD2725 ALS modules reduce LED emitter-to-sensor gap to just 1.0mm while eliminating the effect of optical cross talk

Premstaetten, Austria (19 July, 2016) -- ams AG (SIX: AMS), a leading provider of high performance sensors and analog ICs, today introduced new proximity sensing and proximity/ambient light sensing modules which enable android smartphone manufacturers to reduce the sensor aperture in the display's cover glass to its smallest diameter.

Use of the TMD2620 proximity sensor or the TMD2725, a combined proximity and ambient light sensor, enables phone manufacturers to reduce the aperture's size by as much as 50%, improving aesthetic appeal, especially in devices with a white or light-colored bezel. The TMD2620 and TMD2725 enable aperture size as small as 1.4 and 2.0mm respectively.

The TMD2620 and TMD2725 feature a breakthrough in optical module packaging which allows the emitter – an infra-red (IR) LED – and photodiode to be placed just 1.0mm apart. Lenses on top of the emitter and sensor along with an optical barrier between them help to minimize crosstalk, caused by reflections from the surfaces of the cover glass. Offset adjustment registers eliminate the effect of any residual crosstalk from the module's proximity calculations. Automatic ambient light subtraction further enhances the accuracy of the device's proximity measurements. The ability to measure up to a range of 100mm is comparable to laser-based solutions.

“Until now, inability to overcome the effects of optical crosstalk have prevented android phone manufacturers from reducing proximity sensing apertures below 3.0mm”, said Herbert Truppe, Senior Marketing Manager at ams. “Now the TMD2620 and TMD2725 overcome those challenges and enable a smaller aperture than has previously been possible.”

The TMD2620 and TMD2725 are in volume production now. Unit pricing in order quantities of 1,000 is \$0.36 for the TMD2620, and \$0.43 for the TMD2725.

For sample and evaluation module requests and for more technical information, go to

www.ams.com/proximity-detection/TMD2620 or
www.ams.com/ambient-light-sensors/TMD2725.



About ams

ams is a global leader in the design and manufacture of advanced sensor solutions and analog ICs. Our mission is to shape the world with sensor solutions by providing a seamless interface between humans and technology. ams' high-performance analog products drive applications requiring extreme precision, dynamic range, sensitivity, and ultra-low power consumption. Products include sensors, sensor interfaces, power management and wireless ICs for consumer, communications, industrial, medical, and automotive markets.

With headquarters in Austria, ams employs over 2,100 people globally and serves more than 8,000 customers worldwide. ams is listed on the SIX Swiss stock exchange (ticker symbol: AMS). More information about ams can be found at www.ams.com.

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