

New Product Announcement

Mouser Electronics Now Stocking Minuscule ams TSL2740 Light and Proximity Sensor

June 4, 2019 – [Mouser Electronics](http://www.mouser.com), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [TSL2740](#) combined ambient light and proximity sensor from [ams](#). Offering very high sensitivity when detecting ambient light even at millilux-level intensity, the TSL2740 sensor is ideal for [smart home](#) assistants, smartwatches and wearables, display [backlight](#) control, tablets, smartphones, and [medical](#) diagnostics applications.

The [ams TSL2740](#), available from Mouser Electronics, combines an ambient light sensor (ALS) and a proximity light-to-digital sensor that approximates the human eye response to light intensity under varying lighting conditions. The 2.0 mm × 2.0 mm × 0.5 mm TSL2740 features a wide dynamic range to operate effectively in a broad spectrum of lighting conditions, transforming light intensity to a digital signal output through a 1.8-V I²C interface.

The TSL2740 performs proximity sensing by measuring reflected IR light emitted from an external LED. The proximity engine features automatic ambient light subtraction, as well as offset adjustment registers to compensate for unwanted IR energy reflection at the sensor at a range of up to 10 cm.

The device's ALS sensor features two output channels: a visible channel and an IR channel. The visible channel has a photodiode with a photopic interferometric UV- and IR-blocking filter. The IR channel has a photodiode with an IR pass filter. Each channel has a dedicated integrating data converter which converts photodiode current into a 16-bit digital output that can be interfaced with a microprocessor.

To learn more, visit www.mouser.com/ams-tsl2740-sensor.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 750 manufacturers. Mouser offers 25 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in more than 220 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

About ams

ams is a global leader in the design and manufacture of advanced sensor solutions and analog ICs. The company's 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.

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For further information, contact:
Kevin Hess, Mouser Electronics
Senior Vice President of Marketing
(817) 804-3833
Kevin.Hess@mouser.com

For press inquiries, contact:
Kelly DeGarmo, Mouser Electronics
Corporate Communications & Media Relations Manager
(817) 804-7764
Kelly.DeGarmo@mouser.com