

PRODUCT NEWS

EVERLIGHT presents new ambient light and proximity sensors for advanced displays such as smartphones and tabletPCs

Three-in-one sensor modules to effectively save energy and reduce unwanted signals and noises

Shulin, New Taipei City 【2016.06.20】—EVERLIGHT ELECTRONICS CO., LTD. 【TSE:2393】, a leading player in the global LED and optoelectronics industry, introduces two three-in-one sensor modules, APM-16D17-05-DF8 and APM-16D17-06-DF8 for use in environment brightness detection and smart switching in high end and standard smart phones, tablet PCs, residential smart lighting and digital signage applications.

EVERLIGHT's APM-16D17-05-DF8 and APM-16D17-06-DF8 are digital output three-in-one sensor modules (abbr. APM), combining ambient light, proximity and embedded IR emitter (judge distance). Both series are with a common I²C interface and allow to be driven at low supply voltage of only 1.8V. They are mainly used to sense environment brightness and then adjust the backlight of a screen to the most clear and comfortable status. It is also able to detect a nearby object to turn on/off the screen and the touch panel function with an exceptionally long distance of 10 cm. For example, the screen gets brighter in shining daylight but darken in a dark environment. It will turn off the screen and touch panel while the user makes a call (face close to the screen). After finishing the call, both screen and touch panel will automatically get back to operating mode. The APMs are also equipped with the function of interrupt notification, smart auto on/off screen switch, software adjustable sensing period. Thereby, it perfectly resolves the problem of power consumption, the most concerning issue of portable electronics devices.

The APM-16D17-05-DF8 is a VCSEL sensor with both strengths of compact size and energy saving design. It is located on an extremely small ink hole behind the panel board (diameter at 2mm) with a receiving angle of ± 35 degrees. Its illumination sensitivity range is 0.471m-53280Lux and certified to IEC 60825-1 for the safety of laser products to the human eye. Combining the features of outlook, function and safety make APM-16D17-05-DF8 perfectly suitable for high and medium end portable device applications. The APM-16D17-06-DF8 is a standard LED sensor suited for both oval-shaped and two ink holes with a receiving angle of ± 40 degrees and an illumination sensitivity range of 0.536m-69000Lux. Its excellent cost-performance ratio is ideal for budget electronic devices.

In addition to the features above, they can solve the common infrared reflection problems caused by the glass of the panel control screen of electronic devices. EVERLIGHT implemented a unique package design to reduce the phenomenon of cross-talk to a minimum and also to correct and adjust to the spectrum

that most closed to the human eye.

EVERLIGHT focuses on what the customer requires and is always on a quest for innovation and technical breakthrough to provide one-stop optoelectronics solutions for every need.

Sample Available: Yes. (Upon request)

Mass Production: Q3, 2016

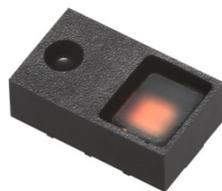
More information or data sheet for this product upon request: Please contact your local EVERLIGHT sales office. Local sales information: www.everlight.com.

EVERLIGHT is fostering close relationships between their R&D, Sales and Marketing teams to meet and exceed their customers' expectations in both product offering and technology. EVERLIGHT provides a great variety of customers with total solutions for their different optoelectronics and LED applications.

Product images:



APM-16D17-05-DF8-TR8



APM-16D17-06-DF8-TR8



Caption: EVERLIGHT's new three-in-one sensor modules can effectively save energy and reduce unwanted signals and noises (Structures and materials depend on demand of client.).

Source: EVERLIGHT Electronics

About EVERLIGHT Electronics Co. Ltd.

EVERLIGHT Electronics Co., Ltd. was founded in 1983 in Taipei, Taiwan. Led by Chairman Robert Yeh. EVERLIGHT has over 33 years of R&D experience for reliable capability. With immediate service and an excellent brand reputation, EVERLIGHT has taken top five in the competitive LED market. Our products are manufactured and packed in-house to guarantee maximum quality and service. EVERLIGHT provides a diverse product portfolio consisting of High Power LEDs, SMD LEDs, Lamps, Lighting Components, LED Lighting Modules, Digital Displays, Optocouplers and Infrared Components for various applications. Today, EVERLIGHT is a global company with over 6,400 employees based in China, Hong Kong, Japan, Korea, Singapore, Malaysia, India, Germany and U.S.A.

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