

**Reflective optical sensor provides robust reliability and versatility  
along with market leading ambient light immunity**

*Surface mount package is reliable, simple, and flexible*

**Woking, UK – February 1, 2016 – TT Electronics**, a global provider of engineered electronics for performance critical applications, today introduced its Photologic® V OPB9000 reflective optical sensor for industrial and medical applications. The sensor provides dependable edge and presence detection of reflective media under a wide range of ambient light conditions. The OPB9000, under the OPTEK brand, is suitable for a variety of applications including: industrial printing, dispensing, manufacturing automation, safety and security devices, portable lab/medical equipment.

“In designing and developing the OPB9000, TT Electronics built upon its Photologic® design heritage with over 35 years’ experience and 10M+ units sold globally,” commented David Kertes, Vice President of Global Sales and Marketing, TT Electronics. “We addressed a number of real world challenges that affect sensor design and their ability to perform to the highest level with this product.”

The OPB9000 is a reflective, CMOS logic output sensor with programmable sensitivity, output polarity, and drain select. Unparalleled 25+ kilolux ambient light immunity along with a wide operating temperature range sets the OPB9000 apart from the competition. The self-calibration feature avoids the need for constant recalibration as the LED ages, saving valuable time and effort. Temperature compensation and automatic gain control features enable it to reliably function in the most demanding and dynamic environmental conditions where consistent performance from sensor devices is critical. The industry leading response time of 6µs ensures high-speed detection for time-critical applications.

Designs using standard analogue circuits can be extremely complex, with additional external components which add space and cost. The OPB9000 is designed to eliminate circuit complexity and reduces board space requirements by up to 80% with its fully integrated analogue front end and digital interface. It combines an infrared emitter and integrated logic sensor in a miniature 4.0 mm x 2.2 mm x 1.5 mm surface-mount package.

For further information visit <http://www.ttelectronics.com/high-reliability/high-reliability-cots-hermetic/photologicr-sensors>

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## About TT Electronics plc

TT Electronics is a global provider of engineered electronics for performance critical applications. It works with market-leading customers in the transportation, industrial, medical, and aerospace and defence sectors.

With headquarters in Woking, UK, TT Electronics employs approximately 6000 staff and operates from 27 locations around the world. It has four divisions: Transportation Sensing and Control, Industrial Sensing and Control, Advanced Components, and Integrated Manufacturing Services.

For more information about TT Electronics visit [www.ttelectronics.com](http://www.ttelectronics.com).

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