



### Toshiba launches a 10Mbps logic output photocoupler for PLCs

*Device is housed in a 5-pin SO6 package and conforms to IEC 61131*

**Düsseldorf, Germany, 28th January 2020** – Toshiba Electronics Europe (“Toshiba”) has launched a new high-speed 10Mbps logic output photocoupler for 24V digital input programmable logic controller (PLC) and other measurement and control equipment.

The new TLP2363 requires a supply current of just 4mA and is rated for a wide operating temperature range (-40 to +105°C). The threshold input current ( $I_{FHL}$ ) is specified with min. 0.3mA and max. 2.4mA thereby ensuring conformance to the digital input standard IEC 61131-2 type 1. Uniquely for this type of device, all that is required to complete the design is a bridge diode and a suitable resistor for current control. The short propagation delay of just 80ns is ideal for use with high-speed systems.

The photocoupler delivers a clear 'high' or 'low' on the output by suppressing chatter noise, even with a slow-moving input signal of 60s or less with a long rising or falling edge. As a result, there is no need for any waveform shaping circuitry, reducing the number of components that saves PCB area and cost.

Despite being housed in a small and thin 5-pin SO6 package with a max. height of 2.3mm, the device offers a minimum isolation voltage of 3750Vrms. The common footprint allows designers to replace products from other manufacturers, allowing them to take advantage of the improved specification of the Toshiba TLP2363.

Shipments of the new photocoupler start today.

Follow the link below for more information on Toshiba's optical devices line-up.

<https://toshiba.semicon-storage.com/eu/semiconductor/product/optoelectronics/detail.TLP2363.html>

###

[Toshiba Electronics Europe GmbH](#) (TEE) is the European electronic components business of [Toshiba Electronic Devices and Storage Corporation](#). TEE offers European consumers and businesses a wide variety of innovative hard disk drive (HDD) products plus semiconductor solutions for automotive, industrial, IoT, motion control, telecoms, networking, consumer and white goods applications. The company's broad portfolio encompasses integrated wireless ICs, power semiconductors, microcontrollers, optical semiconductors, ASICs, ASSPs and discrete devices ranging from diodes to logic ICs.

TEE has headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom providing design, manufacturing, marketing and sales. Company president is Mr. Tomoaki Kumagai

For more company information visit TEE's web site at [www.toshiba.semicon-storage.com](http://www.toshiba.semicon-storage.com).

**Contact details for publication:**

Toshiba Electronics Europe GmbH, Hansaallee 181, D-40549 Düsseldorf, Germany  
Tel: +49 (0) 211 5296 0 Fax: +49 (0) 211 5296 79197  
Web: [www.toshiba.semicon-storage.com/eu/company/news.html](http://www.toshiba.semicon-storage.com/eu/company/news.html)  
E-mail: [discrete-ic@toshiba-components.com](mailto:discrete-ic@toshiba-components.com)

**Contact details for editorial enquiries:**

Michelle Shrimpton, Toshiba Electronics Europe GmbH  
Tel: +44 (0)193 282 2832  
E-mail: [MShrimpton@teu.toshiba.de](mailto:MShrimpton@teu.toshiba.de)

**Issued by:**

Birgit Schöniger, Publitek  
Tel: +44 (0) 1582 390980  
Web: [www.publitek.com](http://www.publitek.com)  
E-mail: [birgit.schoeniger@publitek.com](mailto:birgit.schoeniger@publitek.com)

January 2020

Ref. 7242/A