

CERTIFICATE FI/40825

Our Ref. HEL-CERT200900426-01

Product Optocoupler

Type KPS2801, KPS2802, KPS2805, KPS2806, KPS2832

Certificate Holder Cosmo Electronics Corporation

8F., No. 258, Lian Cheng Rd., Chung-Ho Dist.,

New Taipei City, 23553, Taiwan

Technical Environment temperature: max. 115 °C

information Max. 300V AC mains / OVC II: Max. 250 Vrms / MG IIIa/IIIb / PD2, reinforced insulation

Other information See page 2

The product is certified according to the following standard(s)

EN IEC 62368-1:2020 + A11:2020 EN 60601-1:2006 + A1:2013 + A12:2014

Validity This certificate is valid until 28th September 2025 provided that the Conditions for FI

certification are met. This certificate includes the right to use the FI mark under the condition that changes (if any) will be checked at SGS Fimko before the product is

brought onto market and that the conditions for FI certification are met.

Date of issue 28th September 2020

SGS Fimko Ltd

Signature

Tom Törn

Certification Director

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SGS Fimko Ltd

Takomotie 8, FI-00380 Helsinki, Finland t. +358 9 696 361 www.sgs.fi



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FI/40825

Manufacturer

Cosmo Electronics Corporation No.396, Lu-Pu Road, Dong-Shan Hsiang 269, I-Lan Hsien, Taiwan

Manufacturing site

Cosmo Electronics Corporation
No.396, Lu-Pu Road, Dong-Shan Hsiang
I-Lan Hsien, Taiwan

2. Cosmo Electronics Corporation No.16 Tsu-Chen Road, Dong-Shan Hsiang, 269, I-lan Hsien, Taiwan

3. Cosmo Electronics Technology Kunshan Co., Ltd. No. 339, Qing Yang Highway, Zhoushi Town, Kunshan, 215300, Jiangsu, China

Additional information

According to standard EN IEC 62368-1:2020/A11:2020 optocoupler used as safeguard shall comply with the requirements of clause 5.4 or Annex G.12 for optocouplers which requires component to fulfill standard IEC 60747-5-5 2007. In addition, the type testing voltage Vini,a and routine testing voltage Vini,b shall be at least equal to the appropriate test voltage in EN IEC 62368-1:2020/A11:2020 clauses 5.4.9.1 and 5.4.9.2.

Models have been tested and certified by VDE certificate Ref. No. VDE 40010469 (2017-12*-15) according to the standard EN 60747-5-5:2011+A1:2015. The used test voltages for Vini,a and Vini,b are 5303 Vpeak.

Minimum external clearance and creepage distance: 5,3 mm.

For ITAV aplications, based on test voltages, optocouplers can be used in implementation where required withstand voltage is max. 3,0kVp/(AC mains max. 300V/OVC II). Complying other insulation requirements construction of the optocouplers, final assembly as well as environmental conditions shall be considered.

For medical applications accordin to standard EN60601-1:2006 + A1:2013 + A12:2014 insulation requirements shall be considered case by case (e.g. operator/patient interface).

This Certificate replaces the previous Certificate FI 29615, dated 6 July 2016, due to standard update.

As shown in the Test Report(s) No(s): 299807-1

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S003 (EN ISO/IEC 17065)