



CERTIFICATE FI/40835

Our Ref. HEL-CERT200900448-01



Product Optocoupler

Type KPC354NT, KPC355NT, KPC357NT, KPC452

Trademark 

Certificate Holder Cosmo Electronics Corporation
8F., No. 258, Lian Cheng Rd., Chung-Ho Dist.,
New Taipei City, 23553, Taiwan

Technical information Environment temperature: max. 115 °C
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 29th 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 29th September 2020

SGS Fimko Ltd

Signature



Tom Törn
Certification Director

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Member of the SGS Group (SGS SA)

Manufacturer

Cosmo Electronics Corporation
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269, I-Lan Hsien, Taiwan

Manufacturing site

1. Cosmo Electronics Corporation
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269, I-Lan Hsien, Taiwan
2. Cosmo Electronics Corporation
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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 $V_{ini,a}$ and routine testing voltage $V_{ini,b}$ 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 40014684 according to the standard EN 60747-5-5:2011+A1:2015. The used test voltages for $V_{ini,a}$ and $V_{ini,b}$ are 5303 V_{peak}. Minimum external clearance and creepage distance: 5,3 mm.

For ITAV applications, 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 according 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 29607, dated 29 June 2016, due to standard update.

As shown in the Test Report(s) No(s): 299807-7