



CERTIFICATE FI/40831

Our Ref. HEL-CERT200900442-01



Product Optocoupler

Type KPC815., KPC825., KPC845., KPC6N135., KPC6N136., KPC6N138., KPC6N139.

Trademark 

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

Technical information Environment temperature: KPC815 and KPC825 max. 115 °C, others 100 °C
Max. 300V AC mains / OVC III: Max. 250 Vrms / MG IIIa/IIIb / PD2, reinforced insulation

Other information Remarks for certification

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

Page 1 of 2

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



SGS Fimko Ltd

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

Business ID 0978538-5

Member of the SGS Group (SGS SA)

Manufacturer

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

Manufacturing site

1. Cosmo Electronics Corporation
No.396, Lu-Pu Road, Dong-Shan Hsiang
269, 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

“.” in the model name can be blank, S, H or L, which specify the lead form with following options: blank: Dual-in-line type
S: Surface mount type
H: Long creepage distance type (DIP)
L: Long creepage distance for surface mount type

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 40005500 according to the standard EN 60747-5-5:2011+A1:2015. The used test voltages for $V_{ini,a}$ and $V_{ini,b}$ are 6,8 kVpeak.

Minimum external clearance and creepage distance: 7,8 mm

For ITAV applications, based on test voltages, optocouplers can be used in implementation where required withstand voltage is max. 4,0 kVp / (AC mains max. 300 V/OVC III). 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 29612, dated 6 July 2016, due to standard update.

As shown in the Test Report(s) No(s): 299807-2