

CERTIFICATE FI/40834

Our Ref. HEL-CERT200900446-01



Product	Optocoupler	
Туре	KP1010, KP1020., KP1110, KP1040., KP2010, KP3010, KP3020., KP3040., KP4010., KP4020., KP4040., KP5010., KP6010., K1010., K2010., K3010., K1010L.	
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	
Other information	Max. 300V AC mains / OVC III: Max. 250 Vrms / MG IIIa/IIIb / PD2, reinforced insulation 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 29 th 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	29 th September 2020	
	SGS Fimko Ltd	
Signature	Source and the second s	
	Tom Törn	
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Certification Director

SGSSC

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SGS Fimko Ltd

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Business ID 0978538-5



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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
	 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 1, 3, 4, 6, blank, S, H or L, which specify the lead form with following options: 1 or blank: Dual-in-line type 2 or S: Surface mount type 3 or H: Long creepage distance type (DIP) 6 or 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 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 40009235 according to the standard EN 60747-5-5:2011+A1:2015. The used test voltages for Vini,a and Vini,b are 6,8 kVpeak. Minimum external clearance and creepage distance: 7,8 mm
	For ITAV aplications, based on test voltages, optocouplers can be used in implementation where required withstand voltage is max. 4,0kVp/(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 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 NCS/FI 29606, dated 29 June 2016, due to standard update.
As shown in the Test Report(s) No(s):	299807-6
	Tables (States)



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Finnish Accreditation Service

S003 (EN ISO/IEC 17065)