

CERTIFICATE FI/42519 Issue 2

Our Ref. HEL-CERT210600588-05



Product Optocoupler

Type KAQY214S, KAQV214S, KAQW214S, KAQY210S, KAQY414S, KAQV210S, KAQV414S, KAQW210S, KAQW414S, KAQW614S, KAQW210TS, KAQV210, KAQV214, KAQV414, KAQV414A, KAQV210A, KAQV214A, KAQW210, KAQW214, KAQW414, KAQW210A, KAQW214A, KAQW414A, KAQW614, KAQW614A, KAQY210, KAQY210A, KAQY210B, KAQY210AB, KAQY214, KAQY214A, KAQY414, KAQY414A, KAQV212, KAQV212A

Trademark 

Certificate Holder Cosmo Electronics Corp
11 F., No. 258, LianCheng Rd., Zhonghe Dist., New Taipei City, 235038, Taiwan

Technical information Environment temperature: max. 85 °C
SMD and DIP package: Max. 250V AC mains / OVC III / MG IIIa/IIIb / PD2, reinforced insulation
SOP package: Max. 150V AC mains / OVC II or 250V AC mains / OVC I: MG IIIa/IIIb / PD2, reinforced insulation

Other information -

The product is certified according to the following standard(s) EN IEC 62368-1:2024 + A11:2024

Validity This certificate is valid until 2031-03-27 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 2026-03-27

SGS Fimko Oy

Signature



Jari Merikari
Certification Manager



Manufacturer

Cosmo Electronics Corp
11 F., No. 258, LianCheng Rd., Zhonghe Dist., New Taipei City, 235038,
Taiwan

Manufacturing site

PT Cosmo Technology
JL. Raya Cibadak Segog KM. 14, Kecamatan Cibadak, 43351,
Kabupaten Sukabumi, Jawa Barat, Indonesia

Additional information

The lead form of the model is specified in the model name by the following:

- Surface mount type: "A" in the model name
- Small outline for surface mount type: "S" and all other in Group B
- Dual-in-line type: models without "A" in Group A

According to standard EN IEC 62368-1:2024/A11:2024 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 62368-1:2024/A11:2024 clauses 5.4.9.1 and 5.4.9.2.

Models have been tested and certified by VDE certificate Ref. No. VDE 40053989 (2024-03-13) according to the standard EN 60747-5-5:2020.

Minimum external clearance and creepage distance:

- SOP package: 5,9 mm
- SMD package: 7,7 mm
- DIP package: 7,9 mm

The used test voltages for Vini,a and Vini,b are

- SMD and DIP package: 6000 Vpeak
- SOP package: 2122 Vpeak

Operating temperature: 85 °C max.

For ITAV applications, based on test voltages, optocouplers can be used in implementation where required withstand voltage is:

SMD and DIP package:

AC Mains 250V, OVC III, Required withstand voltage 4000Vpeak, reinforced insulation

SOP package:

AC Mains 150V, OVC II, Required withstand voltage 1500Vpeak, basic insulation or

AC Mains 250V, OVC I, Required withstand voltage 1500Vpeak, basic insulation

SOP package requirements according to procedure 1 with temporary overvoltage of 2000Vpeak.

Vin,b voltages are defined in accordance with the EN IEC 62368-1: 2024/A11:2024 standard. See clause G.12 for more information.

Complying other insulation requirements construction of the optocouplers, final assembly as well as environmental conditions shall be considered.

This certificate replaces the previous Certificate FI-42519 Issue 1, dated 10 February 2026, due to standard update.

As shown in the Test Report(s) No(s): HELES2602000185-1