

CERTIFICATE FI/42522 Issue 2

Our Ref. HEL-CERT210600599-05



Product Optocoupler

Type KAQV217, KAQV217A, KAQW212, KAQW212A, KAQW217, KAQW217A, KAQY212, KAQY212A, KAQY217, KAQY217A (Group A), KAQV212S, KAQV217S, KAQW212S, KAQW217S, KAQY212S, KAQY212SE, KAQY217S, KCP1008, KCP1017 (Group B)

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
GroupA: Max. 250V AC mains / OVC III / MG IIIa/IIIb / PD2, reinforced insulation
Group B:Max. 150 V AC mains / OVC II or 250V AC mains / OVC I: MG IIIa/IIIb / PD2, basic insulation

Other information -

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

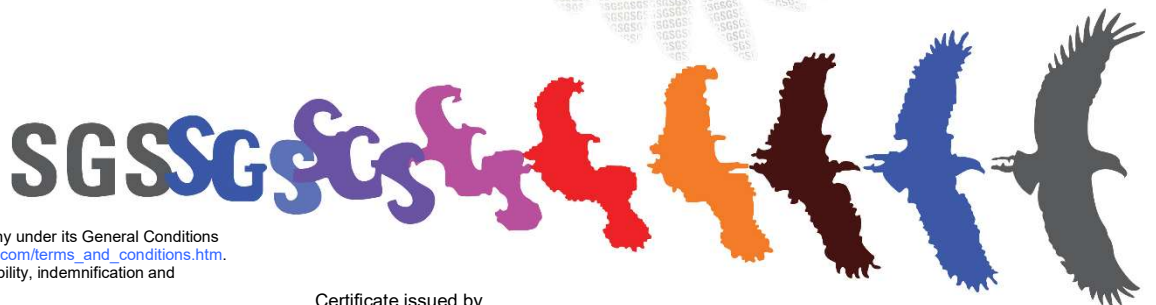
Validity This certificate is valid until 2031-03-19 provided that the Conditions for FI certification are met. This certificate includes the right to use the FI mark under the condition that changes (if any) will be checked at SGS Fimko before the product is brought onto market and that the conditions for FI certification are met.

Date of issue 2026-03-19

SGS Fimko Oy

Signature


Peter Fagerstedt
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

Group A:
AC Mains 250V, OVC III, Required withstand voltage 4000Vpeak,
reinforced insulation
Group B:
AC Mains 150V, OVC II, Required withstand voltage 1500Vpeak, basic
insulation or
AC Mains 250V, OVC I, Required withstand voltage 1500Vpeak, basic
insulation

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 GA

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
40053989 according to the standard EN 60747-5-5:2011+A1:2015.
The used test voltages for Vini,a and Vini,b are

- Group A: 6000 Vpeak
- Group B: 2122 Vpeak

Minimum external clearance and creepage distance:

- Group A: 7,7 mm
- Group B: 5,9 mm

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

- Group A: max. 4kVp/(reinforced insulation AC mains max. 250V/OVC III).
- Group B: max. 1,5 kVp/(basic insulation AC mains max. 150 V/OVC II or 250V/OVC I).

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 + A2:2021 insulation requirements shall be considered case by case (e.g. operator/patient interface).

This certificate replaces the previous Certificate FI/42522 Issue 1, dated 11 February 2026, due to standard update.

As shown in the Test Report(s) No(s): HELES2602000184-1