




CERTIFICATE FI 30336

Our Ref. 290940-1

Product	Optocoupler
Type	CNY64, CNY64A, CNY64B, CNY65, CNY65A, CNY65B, CNY64S
Trade mark	EVERLIGHT
Certificate Holder/ Manufacturer	Everlight Electronics Co., Ltd. No. 6-8, Zhonghua Rd., Shulin Dist. NEW TAIPEI CITY 23860, TAIWAN
Technical information	Operating temperature: 110 max. °C EN 60335-1:2012: OVC II: max. 300 Vrms / 420 Vpeak, reinforced insulation for all models. Other standards: OVC II: max. 400 Vrms / 1400 Vpeak, reinforced insulation for models: CNY65, CNY65A, CNY65B OVC II: max. 370 Vrms / 1400 Vpeak, reinforced insulation for models: CNY64, CNY64A, CNY64B, CNY64S
Other information	See the Appendix for this Certificate
The product is certified according to the following standard(s)	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 EN 60065:2014 EN 60335-1:2012 EN 60601-1:2006 + A1:2013 + A12:2014 EN 62368-1:2014 + A11:2017
Validity	This certificate is valid until 15 February 2023 provided that the Conditions for FI certification are met. This certificate includes the right to use the FI mark under the condition that product changes (if any) will be approved at SGS Fimko before the product is brought onto market.
Date of issue	15 February 2018
Signature	SGS Fimko Ltd  Matti Huttunen Certification Engineer

This certificate has 1 appendix



This certificate is issued by the company under its General Conditions for Certification Services accessible at <http://www.sgs.fi/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. 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.

Manufacturing site

Everlight Electronic (China) Co., Ltd.
 No. 2135 Zhong Shan North Road
 Wujiang Economy Development Zone (Yun Xi Area)
 Songling Town, Wujiang City
 215200 JIANGSU, CHINA

Additional information



The optocouplers without¹⁾ internal clearance and creepage distance and which Distance Through Insulation (DTI) apply only along the joint have been evaluated to be connected between primary circuit connected to the a.c. supply mains and secondary circuit connected to SELV.

¹⁾ Thermal cycling according to EN 60950-1:2006 clause 2.10.9 has been carried out with ten times the following sequence: 68 h at 110 °C / 1 h at 25 °C / 2 h at 0 °C / 1 h at 25°C. Thermal cycling was followed by humidity conditioning of 2.9.2 for 48 h at (29 ± 2) °C, (93 ± 3) %rH. Optocouplers have been subjected to the electric strength test of 2.10.11 at 4800Va.c. for 1 minute after treatment of 2.10.9 and after 2.9.2. No breakdown of insulation was observed.

The components are available in 4-pin DIP and SMD packages.

Models: CNY64, CNY64A, CNY64B

- Measured distance through insulation between input and output is 3,0 mm. Measured external clearance is 9,9 mm and creepage is 9,9 mm.

Models: CNY65, CNY65A, CNY65B

- Measured distance through insulation between input and output is 3,0 mm. Measured external clearance is 15,0 mm and creepage is 15,0 mm.

Model: CNY64S

Measured distance through insulation between input and output is 2,75 mm. Measured external clearance is 9,6 mm and creepage is 9,6 mm.

Operating temperature: max. 110 °C

After judgement from case to case, the optocouplers may also bridge functional, basic, supplementary or reinforced insulation, or may be used in other environments, provided that the ratings are not exceeded in normal operation.

According to the standard EN 60601-1:2006 + A1:2013 + A12:2014, insulation requirements shall be considered case by case (e.g. operator/patient interface).

Standard EN 62368-1:2014 annex G.12 requires that optocouplers are tested and certified according to standard IEC 60747-5-5:2007. These optocouplers have been tested and certified by VDE certificate Ref. No. VDE 40027351 according to the standard IEC 60747-5-5:2007.

This certificate replaces previous FI certificate No. 29747 A1, dated 18 January 2017, due to new added standard EN 62368-1:2014.

As shown in the Test Report(s) No(s): 290940-1

Mole