

Optocoupler



CERTIFICATE FI/40971

Our Ref. HEL-CERT210300192-01

Product Optocoupler

Type ILQ1, ILQ2, ILQ3, ILQ5, ILQ30, ILQ31, ILQ32, ILQ55, ILQ66-, ILQ74, ILQ615-, ILQ620, ILQ621, TCET4100, TCET4100G, TCET4600, TCET4600G, ILCT6, ILD1, ILD2, ILD3, ILD5, ILD30, ILD31, ILD32, ILD55, ILD66-, ILD74, ILD250, ILD251, ILD252, ILD255, ILD610-, ILD615-, ILD620, ILD621, ILD755-, ILD766-, MCT6, TCET2100, TCET2100G, TCET2200, TCET2200G, TCET2600, TCET2600G, ILD1615-1, ILD615-2, ILD1615-3, ILD1615-4, ILQ1615-1, ILQ1615-2, ILQ1615-3, ILQ1615-4

Trademark

Certificate Holder Vishay Semiconductor GmbH
Theresienstrasse 2
D-74072, Heilbronn, Germany

Technical information Basic/Supplementary/Reinforced insulation
Environmental temperature 100 °C / 110 °C.

Other information See page 2 of this Certificate

The product is certified according to the following standard(s) EN IEC 62368-1:2020 + A11:2020

Validity This certificate is valid until 11.3.2026 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.

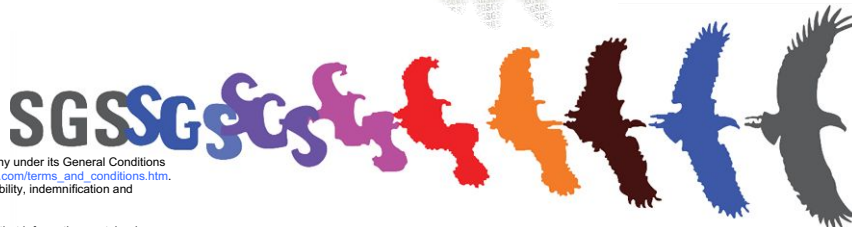
Date of issue 11.3.2021
SGS Fimko Ltd

Signature
Tom Törn
Certification Director

Page 1 of 3

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Business ID 0978538-5

Member of the SGS Group (SGS SA)



Page 2 of 3 to Certificate: FI/40971

Manufacturer

Vishay Semiconductor GmbH
Theresienstrasse 2
D-74072, Heilbronn, Germany

Manufacturing site

Vishay Semiconductor Malaysia Sdn.Bhd.
No.1710-1, Kawasan Perindustrian
Krubong, 75250, Mukim Krubung
Melaka, Malaysia

Additional information

Models:

- 1) ILQ1, ILQ2, ILQ3, ILQ5, ILQ30, ILQ31, ILQ32, ILQ55, ILQ66-, ILQ74, ILQ615-, ILQ620..., ILQ621..., TCET4100, TCET4100G, TCET4600, TCET4600G, ILCT6, ILD1, ILD2, ILD3, ILD5, ILD30, ILD31, ILD32, ILD55, ILD66-, ILD74, ILD250, ILD251, ILD252, ILD255, ILD610-, ILD615-, ILD620..., ILD621..., ILD755-, ILD766-, MCT6, TCET2100, TCET2100G, TCET2200, TCET2200G, TCET2600, TCET2600G
- 2) ILD1615-1, ILD1615-2, ILD1615-3, ILD1615-4, ILQ1615-1, ILQ1615-2, ILQ1615-3, ILQ1615-4

The symbol “.” or “..” in model numbering can be as follows:

“.” can be 1, 2, 3 or 4 for types ILQ66-, ILQ615-, ILD66-, ILD610- and ILD615-.

“..” can be blank or GB for types ILQ620..., ILQ621..., ILD620.. and ILD621..

“.” can be 1or 2 for types ILD755- and ILD766-.

Package:

- DIP-8, SMD-8: ILDxxxx, MCT6, TCET2xxx
- DIL-16, SMD-16: ILQxxxx, TCET4xxx

Operating temperature: 1) 100 °C, 2) 110 °C

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 91888 dated 13.10.2017 according to the standard EN 60747-5-5:2011+A1:2015. The used test voltages for Vini,a and Vini,b are 10 kVpeak.

Page 2 of 3

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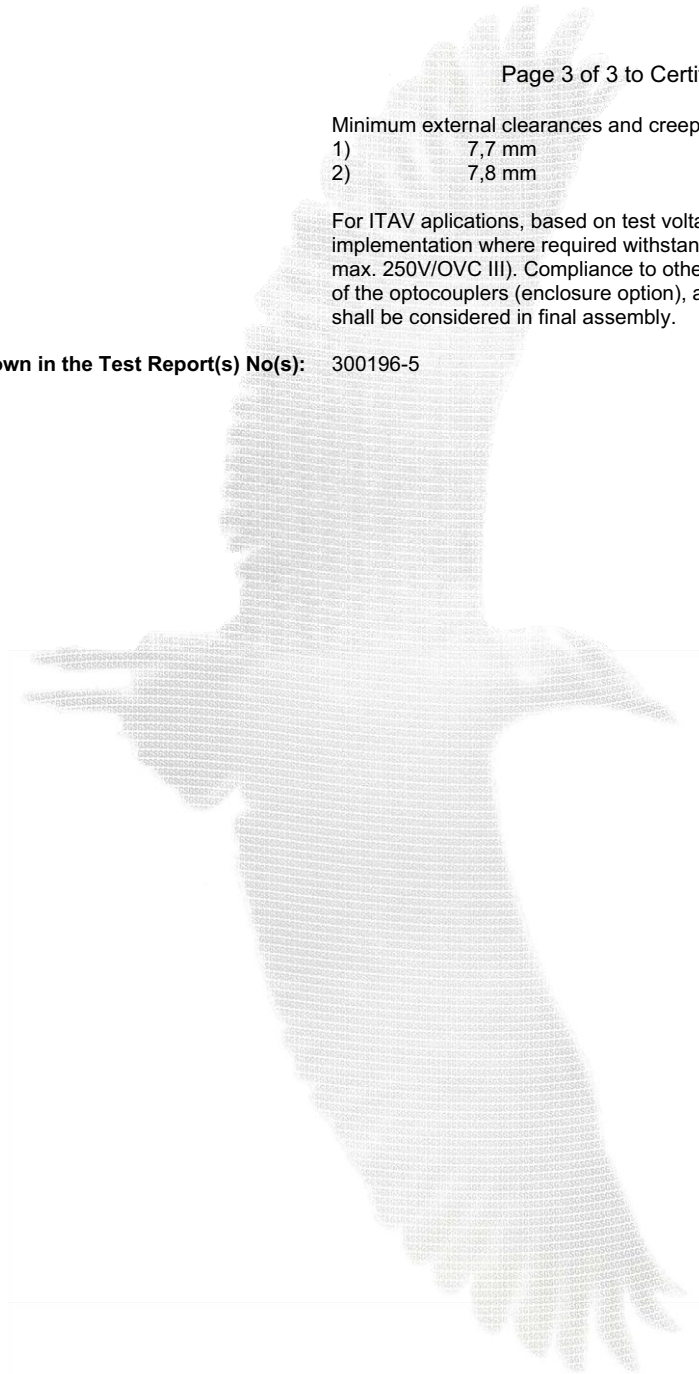
Page 3 of 3 to Certificate: **FI/40971**

Minimum external clearances and creepage distances:

- 1) 7,7 mm
- 2) 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. 250V/OVC III). Compliance to other insulation requirements, construction of the optocouplers (enclosure option), as well as environmental conditions shall be considered in final assembly.

As shown in the Test Report(s) No(s): 300196-5



Page 3 of 3

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