



# Optocoupler



## CERTIFICATE FI/40952

Our Ref. HEL-CERT210200142-01



**Product** Optocoupler

**Type** IL4108, IL4116, IL4117, IL4118, IL4208, IL4216, IL4217, IL4218, K3010P, K3020P, K3011P, K3012P, VO4254, VO4256, VO4257, VO4258, VO4154, VO4156, VO4157, VO4158, K3021P, K3022P, K3023P, K3036P

**Trademark**

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

**Technical information** Basic/Supplementary/Reinforced insulation  
Environmental temperature 100 °C / 110 °C (see page 2).

**Other information** DIP-6, SMD-6 package

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

**Validity** This certificate is valid until 2<sup>nd</sup> March 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** 2<sup>nd</sup> March 2021

**SGS Fimko Ltd**

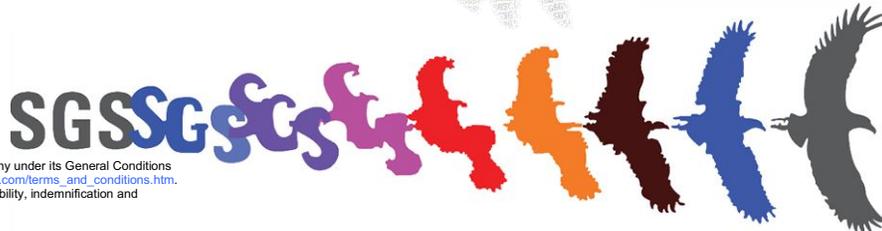
**Signature**

Tom Törn  
Certification Director

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Business ID 0978538-5

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**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) VO4254, VO4256, VO4257, VO4258, VO4154, VO4156, VO4157, VO4158  
2) L4108, IL4116, IL4117, IL4118, IL4208, IL4216, IL4217, IL4218, K3010P, K3011P, K3012P, K3020P, K3021P, K3022P, K3023P, K3036P

Operating temperature: 1) 110 °C, 2) 100 °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 83634, dated 25.10.2017 according to the standard EN 60747-5-5:2011+A1:2015. The used test voltages for Vini,a and Vini,b are 8 kVpeak.

Minimum external clearance and creepage distance: 7,5 mm

For ITAV applications, based on test voltages, optocouplers can be used in implementation where required withstand voltage is max. 4,0kVp (Reinforced, 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):** 300196-1



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