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An opto-isolator (also called an optocoupler, photocoupler, or optical isolator) is an electronic component that transfers electrical signals between two isolated circuits by using light. Opto-isolators prevent high

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voltages from affecting the system receiving the signal.

Commercially available opto-isolators withstand input-to-output voltages up to 10 kV and voltage transients with speeds up ...

### **Opto-isolator - Wikipedia**

Galvanic isolation is a principle of isolating functional sections of electrical systems to

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prevent current flow; no direct conduction path is permitted. [1]  
[2] Energy or information can still be exchanged between the sections by other means, such as capacitance , induction or electromagnetic waves, or by optical, acoustic or mechanical means.

## **Galvanic isolation - Wikipedia**

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## **Electronic Surplus - Electrical, Electronics ...**

Opto-isolators have  
been a staple in the  
engineering world for  
decades. They convert  
an incoming electrical  
signal into light, which  
is then transmitted



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across a gap and received by a phototransistor, which converts the light back to an electrical signal. The gap provides the isolation barrier needed to remove ground loops.

### **How to Eliminate Ground Loops with Signal Isolation - Projects**

Galvanic isolation (usually simplified to just isolation) is the

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physical and electrical separation between one section of a circuit and another. A result of isolation is that each of the isolated circuits has its own return or ground reference. ... The transformer and opto-couplers again are major contributors to the difference in performance ...

**Isolated vs Non-Isolated Power Converters - CUI Inc**  
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## **Optoelectronics | LED Indication - Discrete | DigiKey**

- As per IEC 60747-5-5,

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§ 7.4.3.8.2, this opto coupler is suitable for “safe electrical insulation” only within the safety ratings. Compliance with the safety ratings shall be ensured by means of protective circuits

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