

















Littelfuse Overview

Empowering a sustainable, connected, and safer world



Empowering a sustainable, connected, and safer world

WHO WE ARE

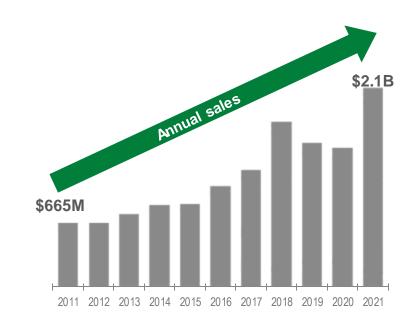
- \$2.10B industrial technology company*
- 17,000 innovative employees across 15 countries worldwide
- Designer & manufacturer of leading technologies that improve the safety, reliability, & performance of our customers' products

WHAT WE DO

- We partner with global customers to design and deliver innovative, reliable solutions
- We collaborate to provide technical & application expertise

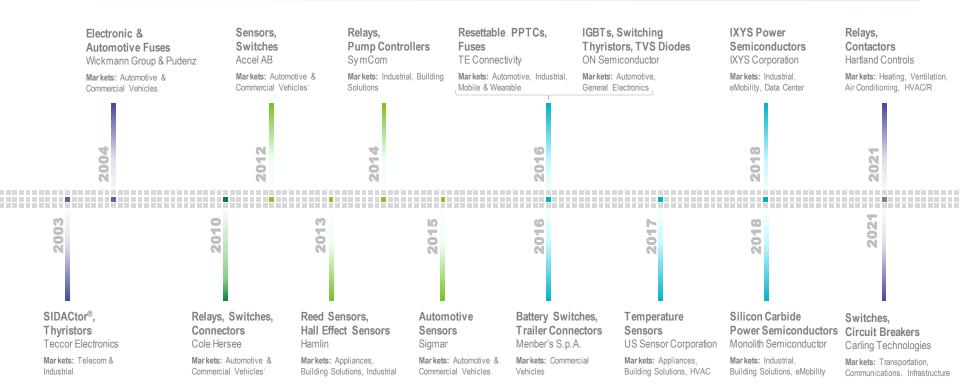
WHO WE SERVE

Serving over 100,000 end customers; our products are found in a variety of industrial, transportation, and electronics end markets-everywhere, every day





Enhancing organic growth through strategic M&A





Littelfuse focused on providing applications solutions to help advance electronification and electrification

ELECTRONICS









- Data Center and Communication
- **Building Technologies** and Automation
- Appliances
- Mobile and Wearables
- Consumer Electronics











- Passenger Vehicles
- Heavy Truck, & Bus
- Construction Equipment
- Material Handling Equipment

- Agricultural Machinery
- Railway Solutions
- Aerospace and Defense
- eMobility & EV Charging Infrastructure

INDUSTRIAL









- Industrial Motor Drives
 - **Factory Automation** & Safety Solutions
- Renewable Energy
- Energy Storage
- Heavy Industry
- HVAC



Littelfuse solutions overview

CIRCUIT PROTECTION SOLUTIONS







Fuses

Solar

Fuses



PPTCs





Varistors GDTs SIDACtor®







Protection

SENSING SOLUTIONS



Reed

Sensors

Automotive

Fuses



Sensors



TMRs



NTCs









Thyristors

Fuses





Diodes







IGBTs







MOSFFTs



Silicon

POWER SEMICONDUCTOR SOLUTIONS







Diodes



Devices



Drivers





IGBTs







Fuse

Holders



Sensors



Modules



Switches



Sensors

Relavs

SWITCHING & CONTROL SOLUTIONS





















Modules

Ground-Fault Arc-Flash Relays Relays

Protection

Motor & Pump Voltage/Current Industrial Monitoring

GFCIs

DC Disconnect Contactors Switches



Circuit protection solutions overview





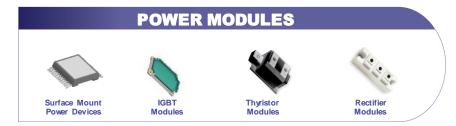


- *Industry's broadest portfolio* with many industry-first solutions
- Industry standards expertise and application testing capabilities for various standards including UL, IEC, ITU, AEC-Q, and others
- Global network of application expertise to help address customers' design challenges
- Solutions for many applications including eMobility, industrial automation, data centers, consumer electronics, building solutions



Power semiconductor solutions overview

Triacs Screen Diodes Carbide IGBTs MOSFETs Drivers IGBTs



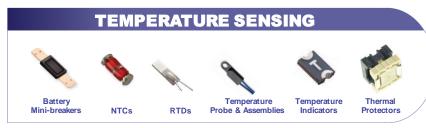


- Wide range of discrete devices and power modules to address wide spectrum of power conversion needs
- Extensive packaging capabilities including industry standard packages, HV packages, and more
- Standard and custom assemblies: standard sub-assemblies for multi-megawatt power systems
- Solutions for many applications including industrial motor drives, EV charging infrastructure, industrial power supplies, and renewable energy



Standard and customized sensing solutions overview







Expertise Applied | Answers Delivered

- Global leader in magnetic sensing including Reed, Hall Effect, and TMR
- Broad range of temperature sensing including thermistors, RTDs, and digital temperature indicators
- Custom sensor design support including custom packages, simulations and more
- Unique MCU + PIR Motion Detector providing simplified and flexible solutions for motion sensing
- Solutions for many applications including appliances, smart meters, battery management, automotive, EV, HVAC, and others

Switching and control solutions overview

RELAYS & OPTOCOUPLERS Mechanical Solid **Depletion Mode** Relays State Relays MOSFETs Relays Optocouplers





- Enhanced portfolio of Reed Relays with capabilities of switching voltages up to 2500 V
- Industry's broadest lines of SSRs. available in wide selection of configurations, blocking voltages, and load currents
- Wide array of protection relays and *controls* to limit equipment damage, improve productivity, and safeguard personnel from electrical faults
- Solutions for many applications including industrial, HVAC systems, building solutions, and motor and pump control



Transportation* solutions overview

PROTECTION & SENSING SOLUTIONS



POWER DISTRIBUTION MODULES



PDMs



Fuse-only **PDMs**



Modules



PDMs



RELAYS & SWITCHES



DC Contactor



High-current Relavs



Disconnect Switches



Switches



- * Littelfuse also offers AEC-Q-qualified circuit protection (fuses, PPTCs, MOVs. TVS diodes, and ESD suppressors), power semiconductors (ignition IGBTs, MOSFETs), and gate drivers for passenger and commercial vehicles

- Wide range of circuit protection solutions with AEC-Q qualification and PPAP capability
- Extensive portfolio of sensing **solutions** to monitor passenger safety and comfort, emissions, and more
- Standard & custom power distribution **modules** housing a variety of fuses, relays, and other electrical components
- Variety of DC solenoid relays for remote switching of electrical currents from 20 A to 600 A
- Multiple electric/electronic switches for battery disconnection, ignition, windshield wipers, and more

Additional information can be found on Littelfuse.com

Explore the world of Littelfuse with the electronics eCatalogs (http://electronicscatalogs.littelfuse.com/)









Application expertise + testing capabilities to assist with reliability, safety, and regulatory compliance

APPLICATION EXPERTISE

Our engineers partner directly with customers to assist with speed up product design and meet their unique needs

COMPLIANCE & REGULATORY EXPERTISE

Support for customers with designing for requirements set by industry standards and regulatory bodies

TESTING CAPABILITIES

To help customers get products to market faster, we offer certification testing to global regulatory standards

SIMULATION & PROTOTYPING

Leverage our simulation and prototyping expertise to reduce product development cycle time and tooling costs





15 GLOBAL LABS







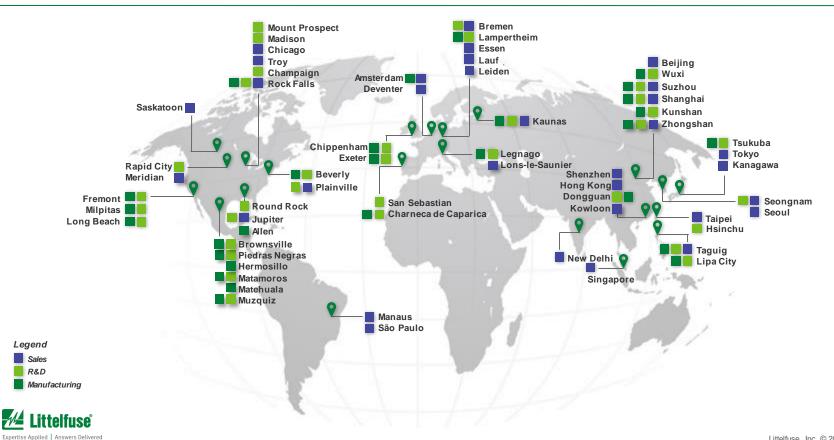








Local resources supporting our global customers



Partner for tomorrow's electronic systems

BROAD PRODUCT PORTFOLIO

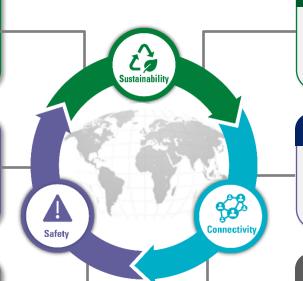
An industrial technology manufacturing company empowering a sustainable, connected, and safer world

APPLICATION EXPERTISE

Our engineers partner directly with customers to help speed up product design and meet their unique needs

GLOBAL CUSTOMER SERVICE

Our global customer service team is with you to anticipate your needs and ensure a seamless experience



COMPLIANCE AND REGULATORY EXPERTISE

To help customers in the design process to account for requirements set by global regulatory authorities

TESTING CAPABILITIES

To help customers get products to market faster, we offer certification testing to global regulatory standards

GLOBAL MANUFACTURING

High-volume manufacturing that is committed to the highest quality standards







Littelfuse.com