



Expertise Applied | Answers Delivered



# SAFEGUARDING PEOPLE AND EQUIPMENT







MINIMIZE  
ELECTRICAL  
HAZARDS



IMPROVE  
SAFETY &  
PRODUCTIVITY







# Safeguarding People & Equipment

Littelfuse has moved beyond fuses into protection relays and other components to offer a unique safety package to its customers. With Littelfuse, safety managers and plant engineers can protect their employees, equipment and productivity from electrical hazards.



PGR-8800 Arc-Flash Relay  
AF0500 Arc-Flash Relay  
AF0100 Arc-Flash Relay



Indicator Fuses



Medium Voltage Fuses

## Fastest Arc-Flash Detection on the Market

- Detects a developing arc flash in less than 1ms (PGR-8800, AF0500)
- Sends a trip signal to interrupt power before damage occurs
- Lowers Hazard Risk Category (HRC) of the equipment

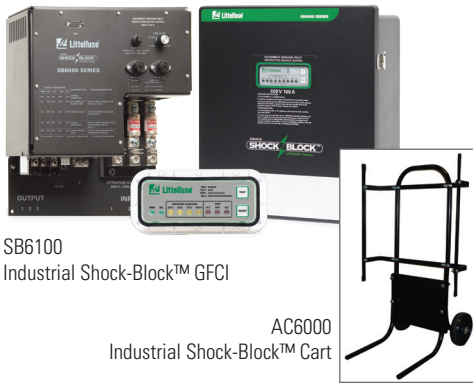
## Broad Base of Fuses for Diverse Applications

- Indicating fuses takes the guesswork out of replacement and increases up-time
- Tools to aid fuse cross-reference and selection for improved safety

## Medium Voltage Protection for Motors and Transformers

- Fast delivery available
- R-Rated, E-Rated and potential transformer fuses





SB6100  
Industrial Shock-Block™ GFCI

AC6000  
Industrial Shock-Block™ Cart



Enclosed Model

EL3100  
Ground-Fault and Phase-Voltage Indicator



201-100-SLD  
Seal-leak Detection Relay

## First UL Listed Industrial GFCI for Shock Protection

- Provides shock protection at 208 V, 240 V, 480 V and 600 V
- Safest product on the market, meets stringent UL 943C requirements
- Monitors ground-wire continuity and other potentially dangerous conditions

## Meet NEC® Code Without Bringing Voltage to the Door

- Indicates ground faults and the presence of voltage on both grounded and ungrounded systems
- Meets NEC® Article 250.21 and CEC® Part 1, Section 10-106 (2) requirements for ungrounded systems

## Detects Seal Failures on Submersible Pumps

- Micro-controller based relay monitors the shaft seal of submersible pump motor
- Adjustable sensitivity setpoint for the probe resistor
- Compact plug-in design; DIN rail or 8-pin socket mount



**NEW!**  
POWR-SPEED® Fuses



Class CC Fuses



PC-102  
Dual-Channel Switch  
Seal-Leak Detection Relay

## Protect Critical Power Electronics

- Arc-barrier technology specially designed to improve semiconductor lifecycle
- Extremely current limiting to reduce peak let-through current
- Low watt loss values save energy wasted during operation

## Space-Saving Protection for Motors and Branch Circuits

- Extremely current-limiting design for safer applications
- Smallest fuse with 300 kA interrupting rating
- Current up to 60A

## Dual Protection Detects Seal Failures on Submersible Pumps

- **PC-102-DL:** Dual Seal-leak detector
- **PC-102-LT:** Dual Seal-leak and over-temperature detector
- Compact design with finger-safe terminals
- Two Form C isolated contacts with LED status indicators







PC-XXX-LLC-CZ /  
PC-XXX-LLC-GM  
Liquid Level Controller



NGR  
Neutral-Grounding-  
Resistor System

SE-330  
Neutral-Grounding-  
Resistor Monitor



LSRX  
Load Sensor

## Controls Levels in Conductive Liquid Pumping Operations

- Liquid level control with 2-probe inputs and SPDT output allows use in both conductive and non-conductive tanks
- Adjustable debounce time delay prevents nuisance tripping due to waves or splashing in tank
- Invertible relay logic allows use in pump-up and pump-down applications

## Increase Uptime and Reduce Arc-Flash Damage

- Eliminates arc-flash hazard associated with ground faults (<5 A)
- Continuously monitors neutral-to-ground path for continuity

## Self-Powered Load Sensor for use as AC Current Proof Relay

- No need for separate power control wiring; draws power from wire being monitored
- Quick-connect fast on terminals or depluggable screw terminals
- Monitors up to 200A loads



460-15-100-LLS  
Liquid Level Detection Relay



460-15-100-SLD  
Seal-Leak Detection Relay



LSR-0  
Load Sensor

## Detects Presence of Conductive Liquids

- Adjustable debounce time delay prevents nuisance tripping due to waves or splashing in tank
- Invertible relay logic allows use in pump-up and pump-down applications
- DIN rail or surface mount

## Detects Seal Failures on Submersible Pumps

- Micro-controller based relay monitors the shaft seal of submersible pump motor
- Adjustable sensitivity setpoint for the probe resistor
- DIN rail or surface mount

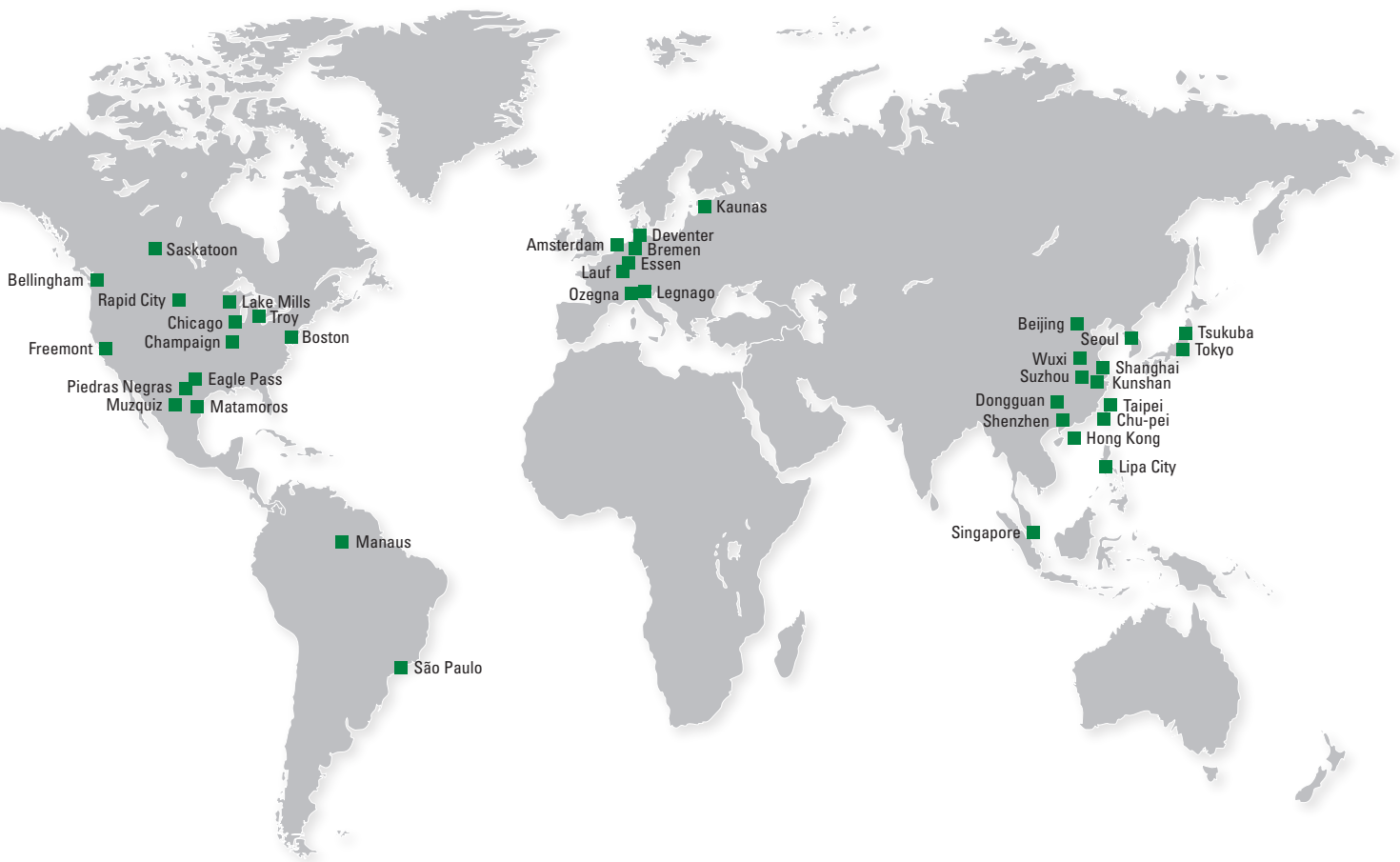
## Self-Powered Load Sensor for use as Proof Relay

- No need for separate power control wiring; draws power from wire being monitored
- Verifies current is flowing as intended
- Monitors up to 135A loads





# Local Resources for a **GLOBAL** Market



## Protection Relays & Controls Catalog (PF130N)

The comprehensive line of electronic and microprocessor-based protection relays safeguard equipment and personnel to prevent expensive damage, downtime or injury due to electrical faults.



## Fuses and Fuse Holders Catalog (PF101N)

Littelfuse offers a complete circuit protection portfolio of industrial power fuses, including time-saving indication products for an instant visual blown-fuse identification.



## Visit Technical Resources at Littelfuse.com

Technical information is only a click away. The Littelfuse Technical Resources contains datasheets, product manuals, whitepapers, application guides, demos, on-line design tools, and more.

To view all Littelfuse product catalogs, visit our website at [Littelfuse.com/Catalogs](http://Littelfuse.com/Catalogs).

Go to [Littelfuse.com/TechnicalResources](http://Littelfuse.com/TechnicalResources)

**Littelfuse World Headquarters**  
8755 West Higgins Road, Suite 500  
Chicago, IL 60631, USA  
**Technical Support:**  
Tel: +1-800-TEC-FUSE  
E-mail: [techline@littelfuse.com](mailto:techline@littelfuse.com)  
**Customer Service:**  
Tel: +1-800-227-0029  
E-mail: [PG\\_CSG@littelfuse.com](mailto:PG_CSG@littelfuse.com)  
Fax: +1-847-787-5190

**Littelfuse SymCom**  
222 Disk Drive  
Rapid City, SD 57701, USA  
**Technical Support:**  
Tel: +1-800-832-3873  
E-mail: [techline@littelfuse.com](mailto:techline@littelfuse.com)  
**Customer Service:**  
Tel: +1-800-227-0029  
E-mail: [PG\\_CSG@littelfuse.com](mailto:PG_CSG@littelfuse.com)  
Fax: +1-605-348-5685

**Littelfuse Startco**  
3714 Kinnear Place  
Saskatoon, SK S7P 0A6  
Canada  
Tel: +1-306-373-5505  
Fax: +1-306-374-2245  
E-mail: [techline@littelfuse.com](mailto:techline@littelfuse.com)



Littelfuse products are certified to many standards around the world. To check certifications on specific product please refer to the product datasheet on Littelfuse.com.

Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, but are subject to changes without notice. Visit Littelfuse.com for the most up-to-date technical information.

© 2018 Littelfuse, Inc.

**FORM PF807N**  
Rev: 5-B-062618