



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

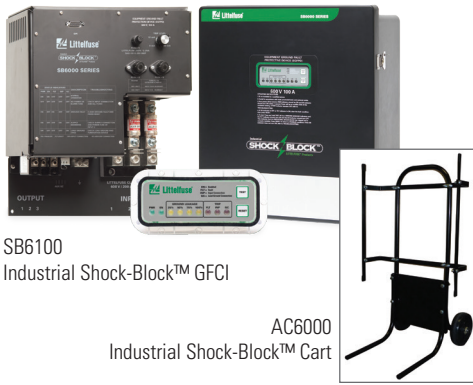
## Broad Base of Fuses for Diverse Applications

- 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

## 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



Enclosed Model

EL3100  
Ground-Fault and Phase-Voltage Indicator

## 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



201-100-SLD  
Seal-leak Detection Relay

## 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

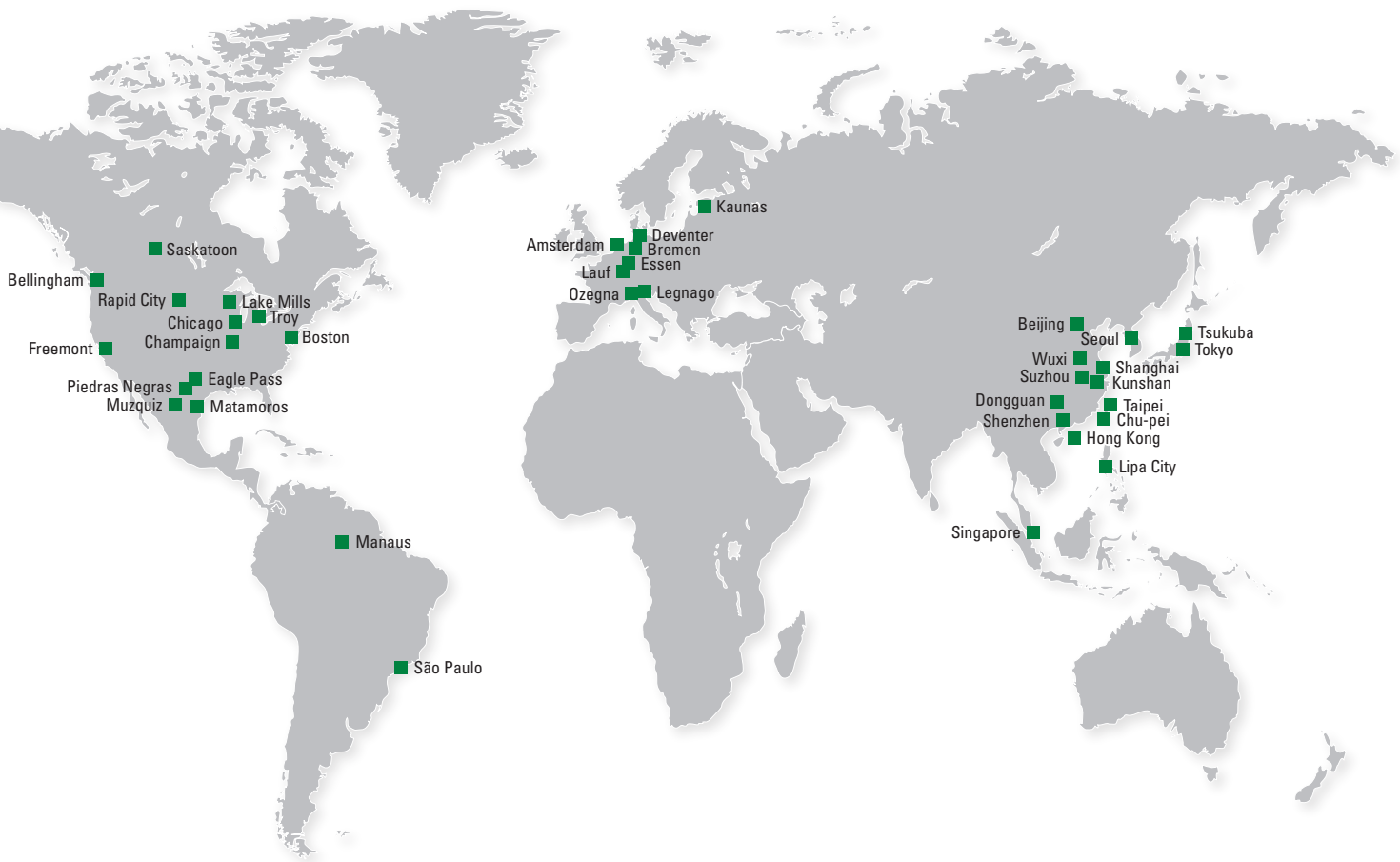
- Micro-controller based relay monitors the shaft seal of submersible pump motor
- Adjustable sensitivity setpoint for the probe resistor
- DIN rail or surface mount

## 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.

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