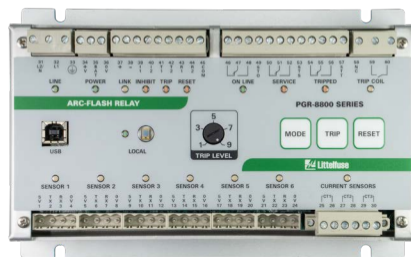# ARC-FLASH PROTECTION
FOR ANY APPLICATION

PGR-8800
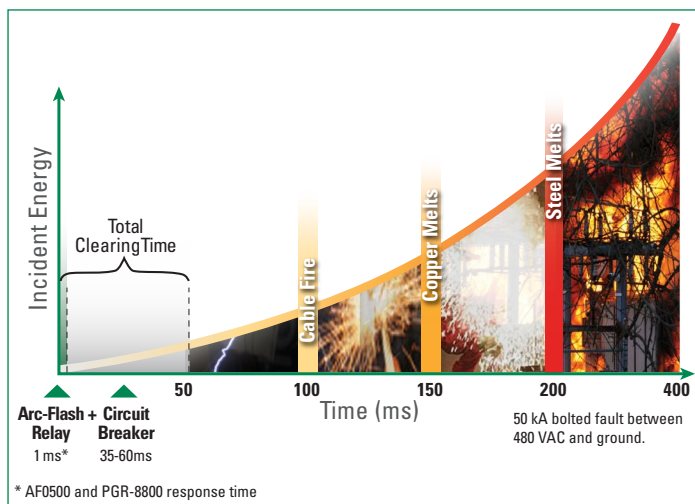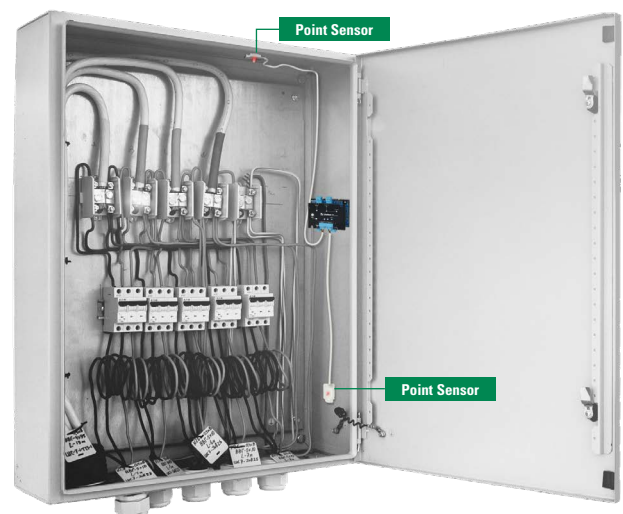
AF0500

AF0100

NEW AF0025

Design Arc-Flash Safety Into the Panel with Industry-Leading Technology

- Detect and stop an arc flash in milliseconds
- Reduce arc-flash incident energy of the panel
- Simple plug & play installation
- Interchangeable light sensor flexibility

- Satisfies NFPA 70E, NEC 240.67, and NEC 240.87 without compromising coordination
- Always active; no complicated maintenance switches required

Arc-Flash Relays Significantly Reduce Damage

Incident Energy

Total Clearing Time

Cable Fire

Copper Melts

Steel Melts

| 50 | 100 | 150 | 200 | 400 |

Time (ms)

Arc-Flash + Circuit Relay Breaker
1 ms*   35-60ms

50 kA bolted fault between 480 VAC and ground.

* AF0500 and PGR-8800 response time

Combiner Box Protection with AF0025

Point Sensor

Point Sensor

Littelfuse®

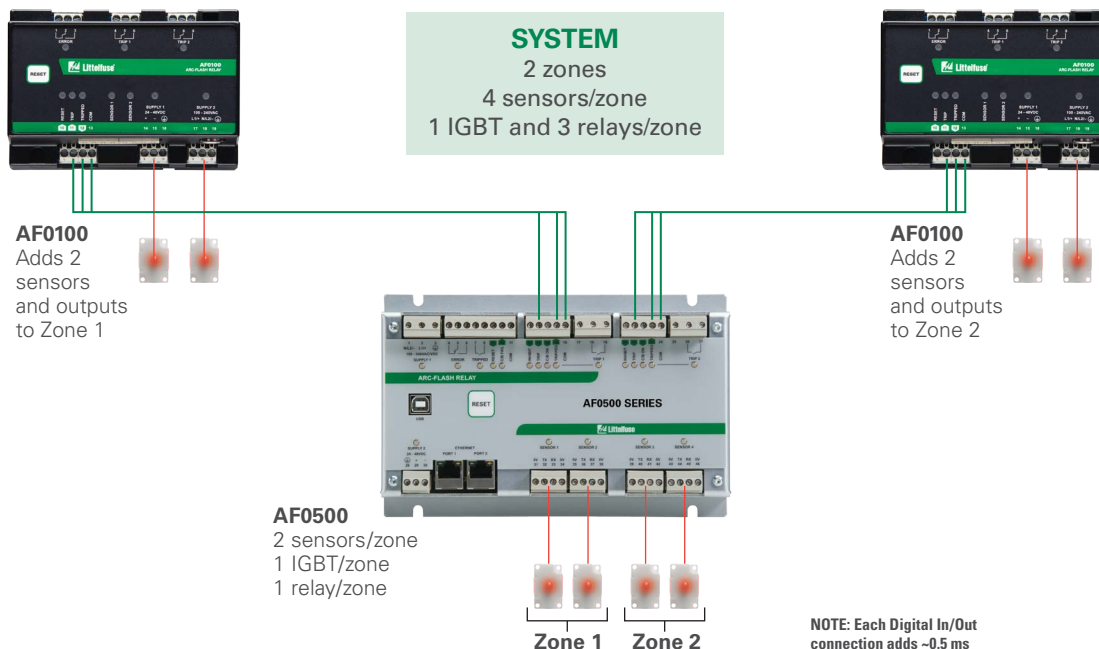Expertise Applied | Answers Delivered

Feature Comparison

Feature	AF0025 Space Saver	AF0100 Small & Scalable	AF0500 Zone & Tie-Breaker Trip	PGR-8800 Advanced Light & Current Sensing
Reliable Light Detection: inputs for point or fiber-optic sensors	2	2	4	6
High-Speed Trip Output	<5 ms typical	<3 to <8 ms depending on configuration	<1 ms	<1 ms
Redundant Internal Trip Path for added reliability	✔	✔	✔	✔
Light Sensor Health Monitoring	✔	✔	✔	✔
Breaker-Failure Detection and Upstream Tripping			✔	✔
Data Logging			✔	✔
Tie-Breaker Tripping			✔	
Zone Tripping			✔	
Network Communications			Dual Modbus-TCP	Modbus RTU
Light Waveform Capture				✔
Optional Current Sensing for Fault Verification				✔

Build an Arc-Flash Protection System

Design a flexible protection system using the AF0100 and AF0500 together. Innovative digital input and output terminals let you interconnect as many arc-flash relays as needed to include the right number of light sensors, and create several zones. The result is customized protection without complex programming or configuration.

SYSTEM
2 zones
4 sensors/zone
1 IGBT and 3 relays/zone

AF0100
Adds 2 sensors and outputs to Zone 1

AF0100
Adds 2 sensors and outputs to Zone 2

AF0500
2 sensors/zone
1 IGBT/zone
1 relay/zone

Zone 1 **Zone 2**

NOTE: Each Digital In/Out connection adds ~0.5 ms

Authorized Distributor: