

IMPROVE YOUR SYSTEM

with IntelliRupter® PulseCloser® Fault Interrupters

Conventional reclosers limit your system's reliability, damage equipment, and cost you money. It's time to upgrade from using 70-year-old technology. Whether you combine or replace reclosers with IntelliRupter® fault interrupters, S&C's breakthrough technology offers multiple benefits that improve your system.

THE OLD WAY: CONVENTIONAL RECLOSERS

Issues:

- Momentary outages
- Voltage sags
- Equipment damage
- More customers affected by sustained outages
- Customer dissatisfaction

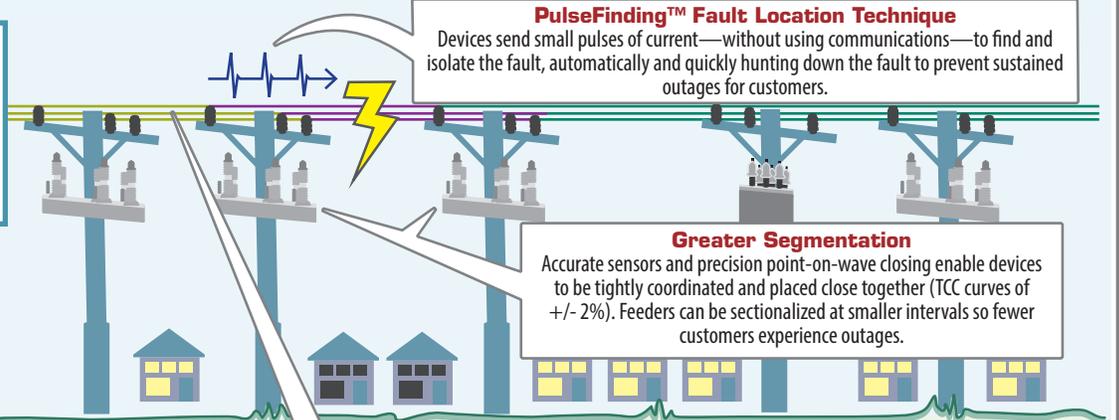


Why the issues? Conventional reclosers test for faults by slamming the full fault current back onto your system multiple times, which "blinks" the line with each test and can damage equipment, such as arresters or splices. This can result in voltage sags across the substation bus. Reclosers also have a limited ability to coordinate properly, so they can't be placed too close together. When there's a fault, greater sections of customers will experience sustained outages and poor-quality power.

A BETTER WAY: RECLOSERS + INTELLIRUPTER DEVICES

Benefits:

- Better power quality
- Less equipment damage
- Fewer sustained outages
- Fewer customers out of power



PulseFinding™ Fault Location Technique
Devices send small pulses of current—without using communications—to find and isolate the fault, automatically and quickly hunting down the fault to prevent sustained outages for customers.

Greater Segmentation
Accurate sensors and precision point-on-wave closing enable devices to be tightly coordinated and placed close together (TCC curves of +/- 2%). Feeders can be sectionalized at smaller intervals so fewer customers experience outages.

PulseClosing® Technology
Devices test for faults with a small pulse of current, using 95% less energy than the full fault current. This causes less stress on your system, eliminates voltage sags on nearby feeders, and reduces sustained outages for customers.

THE BEST WAY: INTELLIRUPTER DEVICES ONLY

Benefits:

- Even better power quality
- Longer equipment life
- Fault-testing on all types of circuits
- No momentary outages
- Even fewer customers out of power

Communication-Enhanced Coordination
Devices can report a fault's presence to one another to locate and isolate the fault—without unnecessarily blinking the line. Fewer customers experience either momentary or sustained outages.

Intelligent Fuse Saving
The fault interrupters can read real-time fault-current levels and then adjust relay operating time based on whether the devices can beat fuses. This eliminates unnecessary blinks that happen with fuse-saving strategies when conventional reclosers can't beat fuses 30%-70% of the time.

Overhead/Underground Mixed-Circuit Fault-Testing
Because PulseClosing Technology gently tests for faults, there's less risk in testing where there are underground cables. Transient faults on hybrid systems no longer cause sustained outages.

