

SEL-TPR

Underground Test Point Reset Fault Indicator



Underground cable fault indicator installation made simple

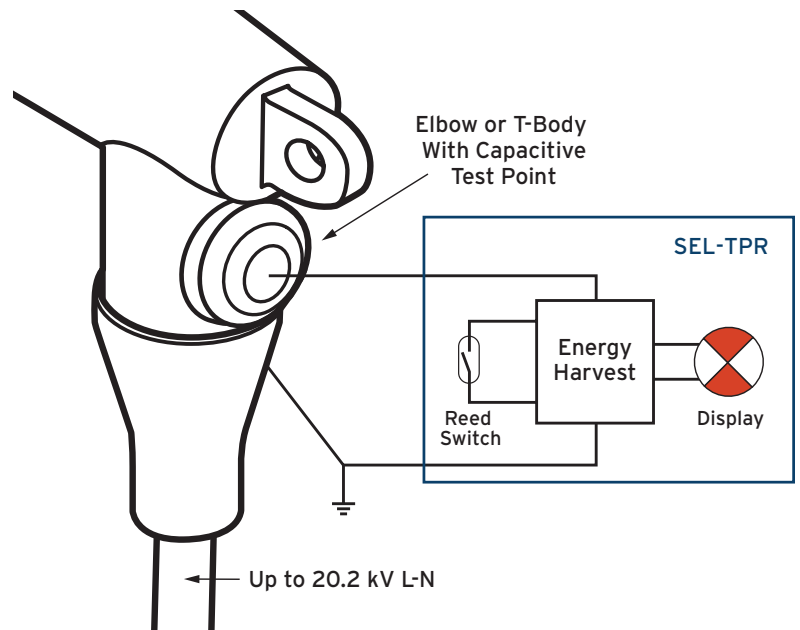
- Fast fault location leads line crews straight to the fault and reduces the outage duration.
- Compact, self-contained, and line-powered design eliminates cable neutral positioning concerns.
- Universal fit with capacitive test points.
- Ten-year, worldwide warranty lowers the overall cost of ownership.



Overview

The SEL-TPR Underground Test Point Reset Fault Indicator attaches to capacitive test points. It replaces the protective cap on capacitive test points, acting as a new cap with the added benefit of providing fault indication. The SEL-TPR eliminates the need to account for the position of the concentric neutral, as is common with cable-mounted faulted circuit indicators (FCIs).

Install an SEL-TPR with any industry-standard hot stick using the rubber molded hook eye. Powered by voltage, the SEL-TPR does not have a minimum load current requirement, making it great for lightly loaded circuit applications.



Key Features

Fast and Easy Installation

The SEL-TPR mounts easily on existing test points. It eliminates the need to modify the neutral cable, unlike other FCI types, and you can install it with a single hot stick.



Easily attach the SEL-TPR to capacitive test points with a single hot stick.

Maintenance-Free

Line-powered by test point voltage, SEL-TPRs do not require batteries, making them maintenance-free.

Rugged Design and Build

All SEL-TPR electronic components are fully encapsulated in potting compound to ensure reliable operation in high-humidity environments, like pad-mounted enclosures. SEL-TPRs are also wrapped in a thick, durable semiconductive EPDM rubber housing that protects against impact and grounds the sensor to the elbow body to complete the charging circuit.

Automatic Reset

SEL-TPRs automatically reset from capacitive test point voltage when the power is restored after an outage.

Universal

SEL-TPRs work with most 200 A and 600 A elbow brands that have capacitive test points.

Display Options

Depending on the application, you can choose from a variety of display options, including battery-free mechanical flag displays and bright BEACON® LED displays. The built-in mechanical target display offers the most compact configuration.

Remote display options reduce arc-flash risks to line crews by eliminating the need to open high-voltage enclosures during fault-finding patrols.



*BEACON versions are also available.

**RadioRANGER Remote Fault Reader must be purchased with the SEL-8300 Wireless Interface to operate.

Three-phase wind farm circuit with SEL-TPRs indicating which string of turbines contains the fault.

Basic Insulating Plug (BIP) Without a Test Point

The SEL-TPR has a model option for a BIP voltage reset boot. This model works for 600 A applications without a test point on the elbow or T-body. It receives power and resets from the BIP voltage and senses the fault current with three cable-mounted sensors.



SEL-TPR for BIP applications.

Specifications

General	SEL-TPR		SEL-TPR for BIP Applications
Power Source	Test point voltage		BIP voltage
Nominal Trip Ratings	60 to 1,200 A		1,200 A and 1,500 A
Trip Tolerance	±10%		±10%
Elbow Voltage Class	15 kV and 25 kV	35 kV	35 kV
Reset Voltage (L-N)	≥6 kV	≥7 kV	N/A
Reset	Automatic at minimum voltage		Automatic on restoration of primary voltage
Reset Time	3 minutes typical, dependent on system voltage		3 minutes typical, dependent on system voltage
Maximum Fault Current	25 kA		25 kA
Trip Response Time	1 ms (optional 24 ms with delayed trip)		24 ms delayed trip
Inrush Restraint Response Time	300 ms		300 ms
Elbow Style	200 A- or 600 A-class with test point		600 A-class T-body with BIP
Housing Material	Semiconductive EPDM rubber		Semiconductive EPDM rubber
Clamping Range	N/A		0.75" to 2.10" or 1.8" to 2.5"

Note: SEL-TPRs should not be used in applications where the phase sensor will be submerged for prolonged periods.



Making Electric Power Safer, More Reliable, and More Economical
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