

SEL-TR

Underground Timed-Reset Fault Indicator



Economical fault indicator for momentary fault and backfeed applications

- Fault indicating is fast (1 ms) and reliable for underground distribution circuits.
- Timed-reset status indication gives crews time to locate the faulted circuit section, regardless of the circuit condition.
- Trip thresholds from 50 to 1,200 A allow universal application across distribution systems.

The SEL-TR underground fault indicator holds its tripped status indication for a set time, regardless of the presence of current or voltage on the distribution circuit. You can use this functionality for applications where backfeed voltage or current can falsely reset restoration-reset fault indicators in the fault path.

The 1 ms trip response time and time-based reset interval makes the SEL-TR ideal for momentary fault-locating applications. After a line re-energizes following a momentary fault, restoration-reset fault indicators in the fault path will reset, making it a challenge to locate the fault. SEL-TR fault indicators continue to lead crews to the fault location even after power is restored.

Reset Intervals

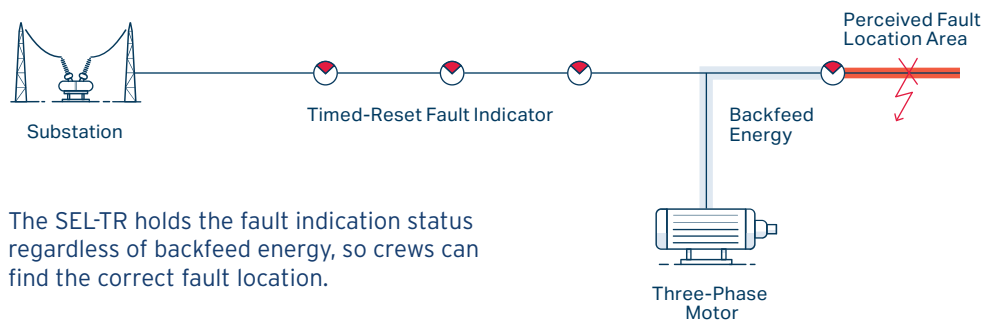
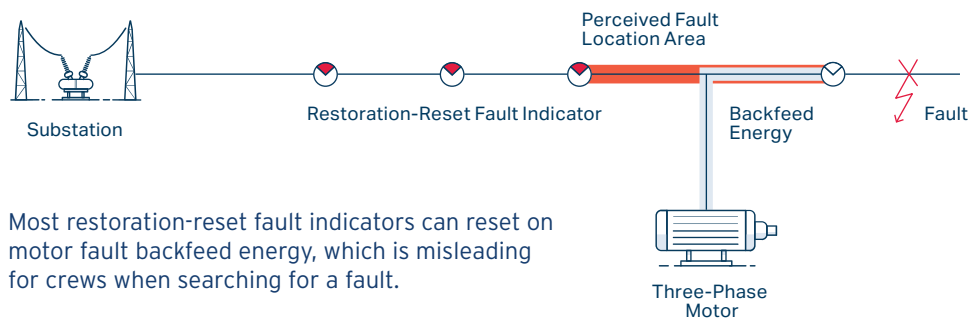
A factory-set 2-, 4-, or 8-hour reset interval will automatically reset the SEL-TR. You can also manually reset the units using the CRSRTT magnet tool.

Economical Solution

The SEL-TR is available with a long-lasting nonreplaceable battery for installations that require zero maintenance.

Industrial Backfeed

Circuits feeding large industrial equipment and rotating machinery can contribute energy into a fault past the location of the fault indicator within the fault path. Sometimes, this energy is sufficient to reset a current- or voltage-reset fault indicator, misleading crews searching for a fault. The SEL-TR provides fault indication for the reset period regardless of the duration or magnitude of the backfeed condition.



The SEL-TR is ideal for underground systems that do not provide sufficient voltage or current to reset and arm a fault indicator.



Remote Displays That Reduce Fault-Finding Time

Remote display options save time and improve safety by eliminating the need for line crews to open high-voltage enclosures or enter subsurface vaults during fault-finding patrols. The SEL-TR is compatible with a variety of remote display options, including energy-efficient mechanical flag displays and bright BEACON® LED displays.



Large "L"
Display (BEACON
LED optional)



Standard "V"
Display (BEACON
LED optional)



BEACON Bolt®
display



RadioRANGER®
Remote Fault Reader
(SEL-8310 Display)

SEL-TR Specifications

General	
Power Source	3.6 V lithium battery with a 20-year shelf life
Replaceable Battery	2.4 Ah cell
Nonreplaceable Battery	8.5 Ah cell
Nominal Trip Ratings	50 to 1,200 A
Trip Tolerance	±10%
Maximum Fault Current	25 kA
Reset Time	2, 4, or 8 hours
Trip Response Time	1 ms (optional 24 ms with delayed trip)
Display Options	Built-in flashing BEACON LED Standard remote Large remote BEACON Bolt LED SEL-8310 RadioRANGER Remote Fault Reader
Outer Diameter Clamping Range	0.50" to 1.6"
Clamp Material	Stainless-steel clamp with a UV-stabilized rubber sleeve
Temperature Range	−40° to +85°C (−40° to +185°F)
Approximate Weight	400 g (0.88 lb)

