

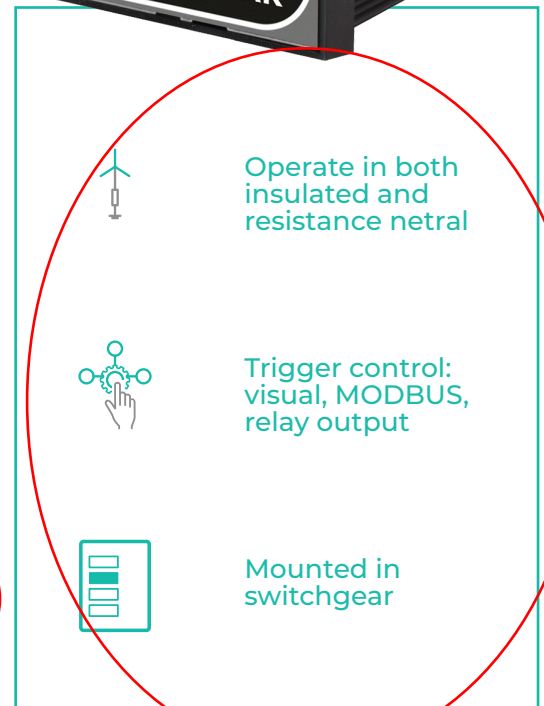

CABLE FAULT LOCATOR

LODESTAR PT1

Short-circuit current Lodestar PT1 is designed to detect and indicate short-circuit currents on distribution power grids with a voltage of 6-35 kV. The device can work on power lines with any type of neutral grounding.

Lodestar PT1 consists of recording device and external measuring sensors. Recording device is placed in the switchgear cell on the control panel. Current transformers are used as sensors, designed for installation on type C Bushings in accordance with EN 50180 and EN 50181 bushings used for distribution elements.

The fault is fixed in the device during short-circuit current flowing. In case of fixing an accident, the mechanical blinker on the device (corresponding to the phase) is turned over with the bright side. At the same time, information is transmitted to the telemechanics (dispatching) system using a relay output. The triggered blinker remains in its state until reset manually (by turning the knob counterclockwise).

- Operate in both insulated and resistance neutral
- Trigger control: visual, MODBUS, relay output
- Mounted in switchgear

ADVANTAGES

????

Events

Types of registered faults Short circuits

General description of the Device

Voltage class of overhead and cable lines of power distribution networks 6-35 kV

Visual indication of a fault Mechanical blinker

Power supply Powered by current sensors

Reset alarm indication Manually (turning the knob counterclockwise)

Check Manual (turning the handle clockwise)

Setting up the parameters Manual with jumpers

Parameters

Device response current 400 A, 600 A, 800 A, 1000 A, selectable using a jumper (with a duration of up to 100 ms)

Type of relay operation Operation with state hold - Pulse operation mode (pulse duration ≤ 100 ms, activation up to 20 ms)

Design

Installation location Into substation integration module onto the control panel

Current sensor Current transformer for an insulated cable, 3 current sensors for each phase of a high-voltage cable. (Bushing type C current transformer)

Operating temperature range From - 40°C till + 70°C

Degree of Device protection IP 20