

SIEMENS

Ingenuity for life

MV-Short circuit indicator

For cable networks and overhead lines

www.siemens.com/sicam

SICAM short circuit indicator for cable networks

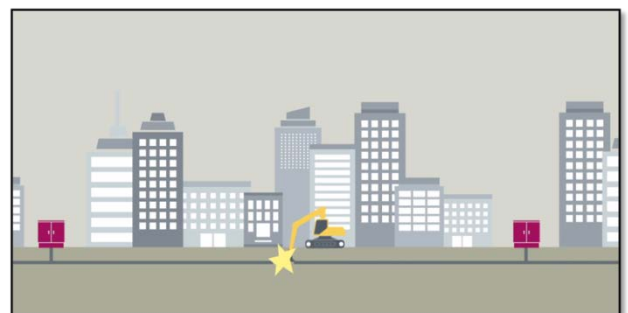
The efficient operation of modern distribution grids requires being able to detect and locate faults quickly, packing them into messages and providing them for subsequent processing. With the SICAM short-circuit and earth fault indication systems, Siemens now offers devices suitable for fault detection and indication in medium-voltage networks.



SICAM FCM



SICAM FPI



SICAM FCM (Feeder Condition Monitor)

- Usable in grounded, isolated and compensated distribution systems
- Use of low-power sensors and high-quality measurement technology with high measuring accuracy
- Alternative: Version for connection to capacitive voltage test systems
- Direct voltage measurement in low voltage networks
- Cost savings thanks to precise and fast fault location

SICAM FPI (Fault Passage Indicator)

- For the detection of phase- and earth faults in radial or open ring cable networks
- Does not require auxiliary voltage - self-sustaining, maintains its functionality thanks to the integrated lithium battery, even after the main supply is triggered
- Meets the safety standard IEC 61010-1
- Isolated, plastic fiber-optic connections between sensors and SICAM FPI are noise immune
- IP 67-compliant, self-sustained sensors

Monitor and report

SICAM Short circuit indicators for overhead lines

The short-circuit and earth-fault monitoring system SICAM FSI (Fault Sensor Indicator) detects and reports phase faults and earth faults in the medium-voltage overhead line network. The mounting by means of an insert into the line by means of an insulating rod is very easy.

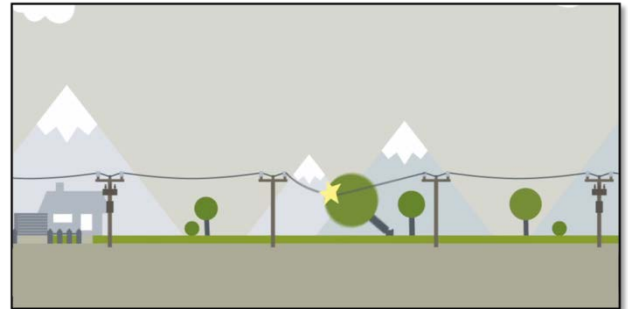
The SICAM FSI uses the encrypted wireless network ZigBee to communicate with the SICAM FCG (max. reach 100 m).



SICAM FSI



SICAM FCG



SICAM FSI (Fault Sensor Indicator)

- Operating voltage: 3,3 to 66 kV
- Precise fault localization for overhead lines
- Fault indication by flashing light and indication via secure radio connection to the SICAM FCG
- Remote firmware Update and configuration
- 10 years free of maintenance

SICAM FCG (Fault Collector Gateway)

- Power supply 12 V or 24 V with PV buffered battery
- Connection to control center via IEC 60870-5-104 or DNP3
- SMS service for fault message on a mobile phone
- As an alternative, line faults can be visualized in the FLiC application of a smartphone using the XMPP protocol
- Can process up to 9 SICAM FSI devices in overhead line networks or max. 3 SICAM FPI devices in cable networks



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For all products using security features of OpenSSL, the following shall apply:

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org), cryptographic software written by Eric Young (eay@cryptsoft.com) and software developed by Bodo Moeller.