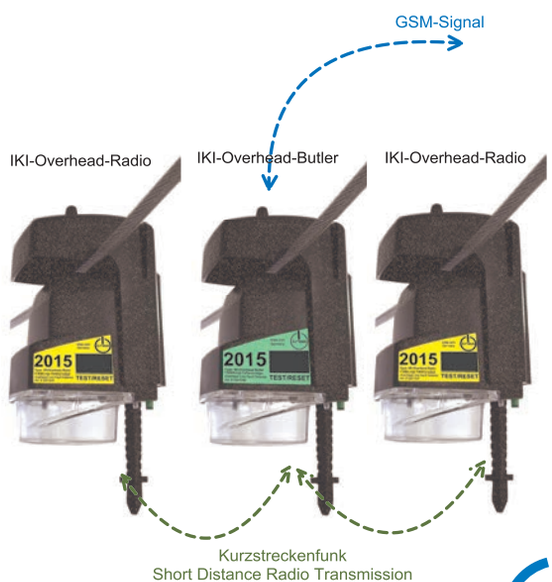
IKI-Overhead

Overhead-Line Fault Indicator
Complete Solution for Local and Remote Indicating Types

- **Overhead-Line Fault Indicator**
  Short-circuit and earth-fault detection in overhead line networks
- **Ultra-bright LED indication**
  360° visibility; wide viewing angle. Even visible in extreme sunlight
- **Easy installation and self-test by operation rod**
  integrated indication for correct installation; no special tools required
- **Reliable fault detection**
  Microcontroller-based independent overcurrent-time characteristic; short-circuit and earth-fault detecting; suitable for high-impedance earth-faults
- **Optional: remote alarm by radio transmission and GSM**
  by IKI-Overhead Radio (yellow marked) and IKI-Overhead Butler (green marked)
- **User adjustable parameters by DIP-switches**
  Pick-up current (automatic or fixed 200-600 A). Reset (1-8 h, manually or auto after return of minimum load current or manually)
- **Long life cycle**
  Due to included high-quality lithium battery and nanowatt technology. Additional supply from load-current.
- **Applicable in closed loop or radial networks with Renewables**
  Display of first and second alarm event without any change of settings. Requirement: automatic recloser

Principle of communication between up to 8 IKI-Overhead Radio with one IKI-Overhead Butler

IKI-Overhead Butler communicates by GSM with PONLINE-Master or any SMS-client. PONLINE-Master can be linked to any existing Scada-System



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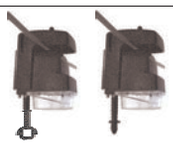
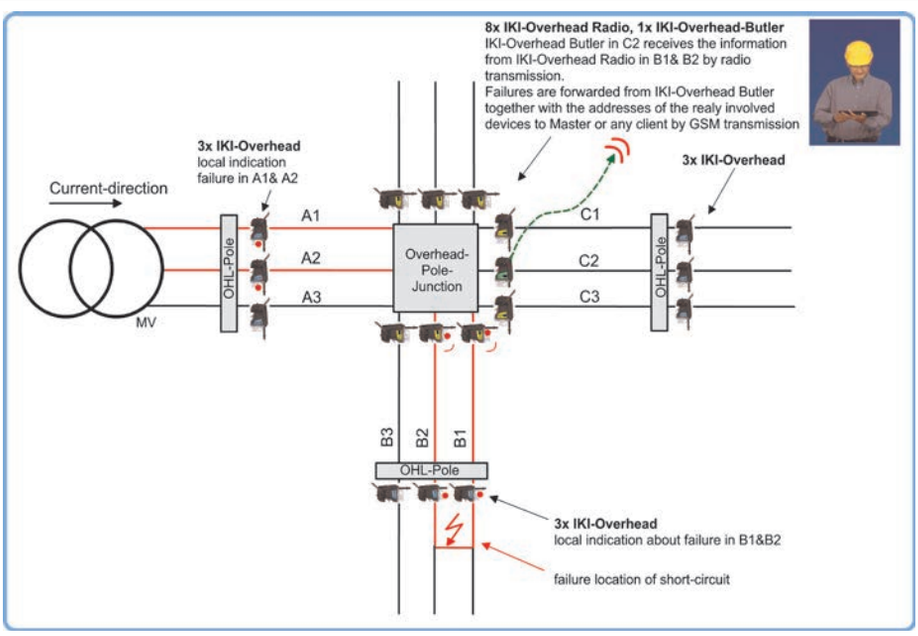
Technical data

Power supply: Pick-up current I>>: Pick-up time tI>>: Reset: Visibility: Dimensions: Installation: Self-test: Protection class: Rated nominal voltages: Rated power frequency Operating temperature: Storage temperature: Conductor rope cross: Housing: Standard-Type: IKI-Overhead R2 Art-No. 2501302	lithium battery (life time approx. 15 years); parallel power supply from overhead-line during load currents above 5A For IKI-Overhead Radio and IKI-Overhead Butler battery life-time min. 10 years; parallel power supply from overhead-line during load currents above 5A automatic, 200, 400, 600 A 60ms, 200 ms 1 h, 2 h, 4 h, 6h, 8 h, manually, automatically after return of minimum primary current 3 A for at least 10 s approx. 50-100 m at bright sunlight; approx. 500 m at night h = 210 mm; Ø = 130 mm by operating rod (bajonett or ring) by operating rod and magnet IP68 1kV to 36kV 50-50 Hz -30°C to +75°C -30°C to +80°C 20 mm2 to 490 mm^2, corresponding sectional area: to a diameter of 5mm to 35mm plastics, UV stable CT-Type Standard device with local LED indication	
IKI-Overhead Radio Art-No. 2501304	Device with short-distance radio connection up to 50m. Failure information will be forwarded from IKI-Overhead Radio to IKI-Overhead Butler	
IKI-Overhead Butler Art-No. 2501306	Device with short-distance radio connection for communication with up to 8 pcs IKI-Overhead Radio. With additional GSM-Modem to forward information to PONLINE-Master or any SMS-client; GSM-SIM-card not included.	
Mounting: Art-No. 25xxyyzz Art-No. 25xxyyzz_H001	Standard_type: by means of operation rod with bajonett Clamp-Stick_type: by means of operation rod with clamp (shot gun)	

Principle of overhead-line failure detection with local and remote indicating devices.

Failures are indicated up to the failure location



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