IKI-Overhead R2

Fault indicator for overhead lines

With the IKI-Overhead R2, overhead lines can be easily monitored for faults and thus integrated into the overall protection concept to minimize downtime. Fault indication is provided locally via strong LEDs.

Properties

Fault detection of all typical overhead line faults
Short circuits, transients and ground faults

Ultra-bright LED display
Visibility cone 360°, visible even in bright sunlight

Easy installation using actuating rod
Integrated torque indicator shows correct installation. No additional tools required.

Reliable fault detection
Overcurrent and short-circuit via to independent current/time characteristic; short and earth (short) circuit detection; high impedance fault detection by dI/dT detection; inrush suppression; fault confirmation by monitoring for disconnection via integrated voltage sensor

Simple parameter setting by DIP switch
Response current (automatic or fixed thresholds 200 - 600 A). Reset time (2 - 8 h, manual or automatic after load current recovery). Access to DIP switches possible without tools.

Long life
due to high quality lithium battery, nanowatt technology and corrosion-free housing.

Easy installation
Torque indicator for safe mounting

Information about vulnerabilities of this product can be reported and received on this website: te.com/productsecurity.

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Variants

Item number	Description
2501302_H001	IKI-Overhead-R2 Fault indicator for overhead line Connection: Ring eyelet
2501302	IKI-Overhead-R2 Fault indicator for overhead line Connection: Bayonet
2501308_H001	IKI-Overhead-R2_Puls fault indicator for overhead line earth fault detection by pulsation method Connection: Ring eyelet
2501308	IKI-Overhead-R2_Puls fault indicator for overhead line earth fault detection by pulsation method Connection: Bayonet

Technical Data

Device data

Article number	IKI-Overhead_R2
Product designation	IKI-Overhead R2 Fault indicator for overhead line

Display

Display Visibility	Approx. 50-100 m in bright sunlight approx. 500 m at night
Display flashing frequency	30 per minute
Brightness display	13 Candela

Dimensions and installation instructions

Case height x width x depth	250 x 104 x 145 mm
Conductor cross section	20 - 490 mm²; 5 - 35 mm diameter

Operating conditions

Operating temperature	-30°C ... 75°C
Storage temperature	-30°C ... 80°C
Protection class	IP67
Voltage level	Applicable up to 36 kV
Maximum height operation	4500 m above sea level

Operating conditions

Maximum wind force	70 m/s

Fault detection

Short circuit detection I>>	✓
Threshold current short-circuit detection I>> [A]	200, 400, 600
Automatic response threshold Short circuit detection	✓
Threshold time short-circuit detection I>> [ms]	80, 150
Threshold time short-circuit detection (I>>) adjustable via DIP [ms]	80, 150
Waiting time after current switch-off (short-circuit detection) [ms]	200
Earth short-circuit detection Ie>>	✓
Reset setting	2, 4, 8 h
Reset	Time, manually by actuating rod, automatically after load current return > 3 A

Communication

Frequency bands	4

Power supply

Battery	Lithium battery
Battery life	Approx. 15 years
Total flashing duration (Battery life)	2880 hours (120 days)

Accessories

Article number	Product designation
2500035	Actuating rod IKI-Overhead L=1473mm | For installation of IKI-Overhead with bayonet connection
2502234	Actuating rod IKI-Overhead L=2590mm | For installation of IKI-Overheads with ring eyelet
2502280	Test/Reset Magnet-Tool IKI-Overhead Bayonet

Safety notes

The IKI Overhead R2 can be installed and also uninstalled directly on live overhead lines using suitable installation tools. For the installation, working principles must be defined by the responsible safety engineer. The safety instructions regarding the insulating rod must also be observed.