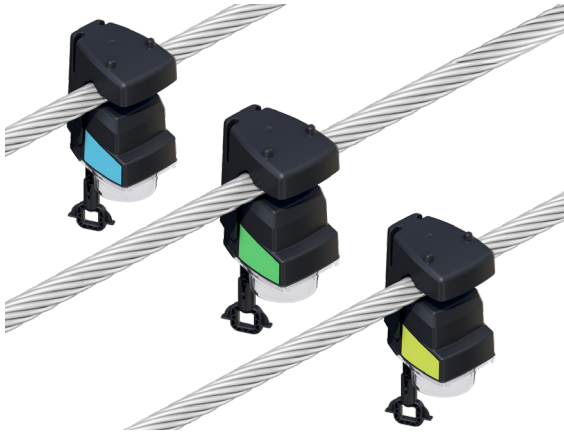


# KRIES IKI-OVERHEAD

FAULT CURRENT INDICATOR FOR OVERHEAD  
DISTRIBUTION LINES UP TO 36 kV



IMPROVE GRID RELIABILITY BY REDUCING THE  
TIME TO LOCATE FAULT CONDITIONS, TRACKED BY  
MEASURES SUCH AS SAIDI OR SAIFI ETC.

## APPLICATIONS

- Fault indicators for overhead lines
- Grid edge monitoring

## RELEVANT STANDARDS AND TEST REPORTS

- IEEE-495

## KEY FEATURES

- Field configurable
- Multiple reset options - by time, by re-energization or by reset magnet
- Multiple fault detection strategies

TE Connectivity (TE) Kries IKI-Overhead (IKI-OH) fault current indicators are designed for overhead distribution lines from 1 to 36 kV, and from 20 - 960 mm<sup>2</sup> and #4 - 1750 kcmil cable sizes. They are engineered to monitor fault conditions such as short circuits, temporary disruptions and ground faults on overhead lines, helping grid operators to quickly restore power after unplanned outages.

Our Kries IKI-OH indicates a fault condition locally using integrated LEDs whereas the combination of IKI-Overhead-Radio and IKI-Overhead-Butler allows remote reporting to a distribution control center, enabling grid transparency and reducing SAIDI.

Our Kries IKI-OH portfolio is tested to IEEE-495 standards and meets operating temperatures from -30 °C to 75 °C (-22 °F to 167 °F).

With no special tools required, the Kries IKI-OH can be quickly and easily installed, without de-energizing the circuit that is to be monitored.

Vegetation clashing against power lines or fallen poles can be detected by IKI-OH, helping our customers to prevent wildfires and unsafe conditions for the local population.

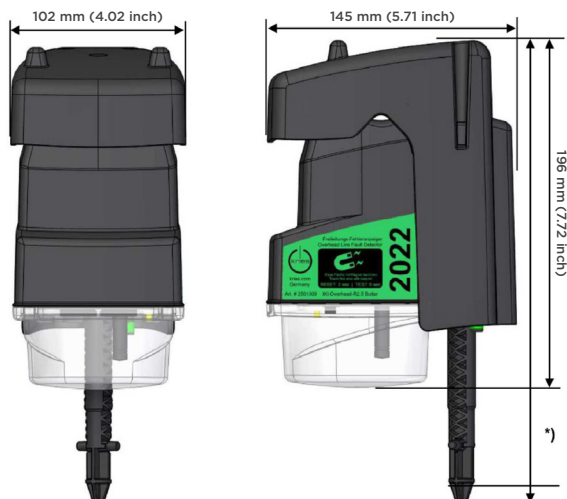
## TECHNICAL SPECIFICATIONS



Description	IKI OVERHEAD BUTLER	IKI OVERHEAD RADIO	IKI OVERHEAD
TCPN	ES9683-000 Includes 1x Butler and 2x Radio		ER3568-000 Includes 1x IKI-OH
Product Designation	IKI-Overhead R2.5 Butler fault indicator for overhead line  Remote signalling via SMS Receiver for IKI-OH Radio 4G LTE-M   Ring eyelet or bayonet	IKI-Overhead R2.5 Radio Fault Indicator for overhead line  Remote message via short range radio to IKI-Overhead Butler Ring eyelet or bayonet	IKI-Overhead R2 fault indicator for overhead line  Strobe only indication
Dimensions and installation instructions			
Connection Type for Insulating Pole	Ring eyelet or bayonet		
Case Height x Width x Depth	290 x 104 x 145 mm   11.4 x 4.09 x 5.71 inch		
Conductor Cross Section	20 - 960 mm <sup>2</sup>   5 - 35 mm diameter   #4 - 1750 kcmil AWG   0.20 - 1.38 inch diameter		
Operating conditions			
Operating Temperature	-30 °C to 75 °C (-22 °F to 167 °F)		
Storage Temperature	-30 °C to 35 °C (-22 °F to 176 °F)		
Protection Class	IP 67		
Voltage Level	Applicable up to 36 kV		
Maximum Height Operation	4500 m above sea level   14764 ft above sea level		
Maximum Wind Force	45 m/s   100 miles/h		
Fault detection			
Short Circuit Detection I>>	✓		
Threshold Current Short-Circuit Detection I>> [A]	Adjustable: Auto, 200 A, 400 A, 600 A		
Automatic Response Threshold Short Circuit Detection	✓		
Duration of fault for indication [ms]	75, 175		
Inrush Indication [ms]	200		
Earth Short-Circuit Detection Ie>>	✓		
Timed Reset Setting	2, 4, 8 hours		
Reset Types Available	Time   Manually by reset magnet   Automatically upon re-energization		
Display (all variants)			
Display Visibility	Approx. 100 m (160-330 ft) in bright sunlight   Approx. 500 m (1640 ft) at night   Omnidirectional		
LED Flashing Frequency	20 per minute (once every 3 seconds)		
Communication (IKI Overhead Butler only)			
GSM Network	4G LTE-M and NB IoT	-	-
Maximum number of connectable IKI-Overhead-Radio	2	-	-
Regional Certification	Please inquire to confirm device compatibility with your local Mobile Network Operator (MNO)		
Power supply	ES9683-000		ER3568-000
Battery Life	Min. 10 years		Approx. 15 years
Battery	Lithium metal battery		

### Safety notes

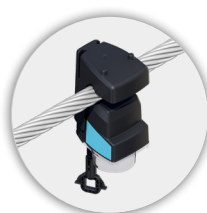
The IKI Overhead R2.5 can be installed and also uninstalled directly on live overhead lines using suitable installation tools. For the installation, working principles must be defined by the responsible safety engineer. The safety instructions regarding the insulating rod must also be observed.



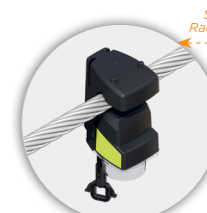
\*)

Bayonet hot stick	270 mm (10.63 inch)
Plug-in eyelet	290 mm (11.42 inch)
Eyelet	240 mm (9.45 inch)

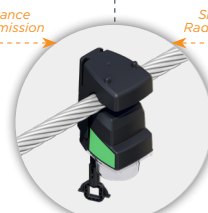
## IKI-OVERHEAD COMMUNICATION



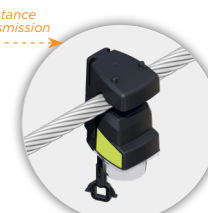
IKI-OH R2  
Visual Indication



IKI-OH Radio R2.5  
Radio Link Up To 10 m  
(32.81 feet)



IKI-OH Butler R2.5  
GSM Communication  
(4G)



IKI-OH Radio R2.5  
Radio Link Up To 10 m  
(32.81 feet)

Short Distance  
Radio Transmission

Short Distance  
Radio Transmission

4G Signal

Learn more: [TE.com/energy](https://www.te-connectivity.com/energy)

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