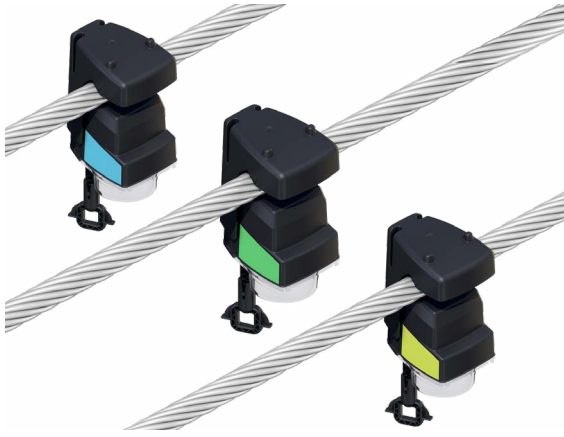


# KRIES IKI-OVERHEAD

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, SAIFI, ETC.

## APPLICATIONS

- Fault indicators for overhead lines
- Grid edge monitoring

## RELEVANT STANDARDS AND TEST REPORTS

- IEEE-495

## KEY FEATURES

- High impedance fault detection
- Field configurable
- Multiple reset options - By time, by re-energization, or by reset magnet
- Multiple fault detection
- Low battery warning (Butler and Radio)

TE Connectivity's (TE) Kries IKI-Overhead fault current indicators IKI-OH are designed for overhead distribution lines from 1 to 36 kV, and from #4 - 1000 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 quickly restore power after unplanned outages.

Our Kries IKI-OH indicates a fault condition locally with integrated LEDs wherein the combination of IKI-Overhead-Radio and 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).

Our Kries IKI-OH can be installed without de-energizing the circuit to be monitored. With no special tools required, IKI-OH devices can be quickly and easily installed, while keeping the power on. Vegetation clashing against power lines or fallen poles can be detected by IKI-OH, helping our customers prevent wildfires or unsafe conditions for local population.

## TECHNICAL SPECIFICATIONS

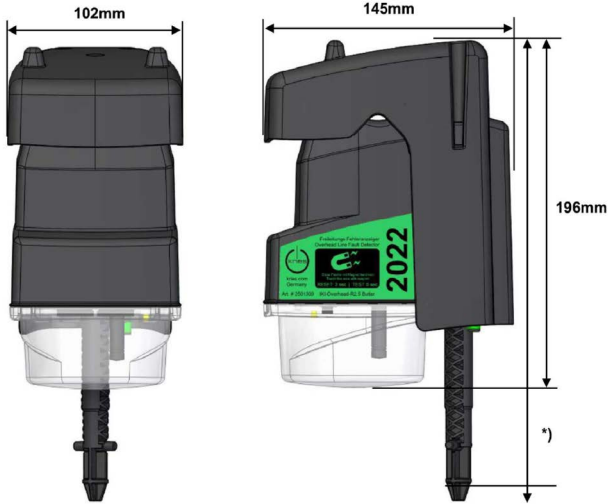


Description	IKI OVERHEAD BUTLER	IKI OVERHEAD RADIO	IKI OVERHEAD
TCPN	ES2370-000	ES2371-000	ER3568-000
Product Designation	IKI-Overhead R2.5 Butler fault indicator for overhead line Remote signalling via SMS   Receiver for IKI-OH radio   4G   Ring eyelet	IKI-Overhead R2.5 Radio Fault Indicator for Overhead Line Remote Message via Short Range Radio to Butler   Ring eyelet	IKI-Overhead R2 Fault indicator for overhead line Strobe only indication
Dimensions and Installation Instructions			
Connection Type for Insulating Pole	Ring eyelet		
Case Height x Width x Depth	250 x 104 x 145 mm   9.84 x 4.09 x 5.71 inch		
Conductor Cross Section	20 - 490 mm <sup>2</sup> ; 5 - 35 mm diameter   #4 - 1000 kcmil AWG; 0.20 - 1.38 in diameter		
Operating Conditions			
Operating Temperature	-30°C to 75°C (-22°F to 167°F)		
Storage Temperature	-30°C to 80°C (-22°F to 176°F)		
Protection Class	IP67		
Voltage Level	Applicable up to 36 kV		
Maximum Height Operation	4500 m above sea level   14 764 ft above sea level		
Maximum Wind Force	70 m/s   157 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	✓		
Threshold Time Short-Circuit Detection I>> [ms]	80, 150		
Waiting Time After Current Switch-Off (Short-Circuit Detection) [ms]	200		
Earth Short-Circuit Detection Ie>>	✓		
Timed Reset Setting	2, 4, 8 h		
Reset Types Available	Time, Manually by reset magnet, Automatically upon re-energization		
Display (All Variants)			
Display Visibility	Approx. 50-100 m (160-330 ft) in Bright Sunlight; Approx. 500 m (1640 ft) at Night		
Display Flashing Frequency	30 per minute		
Brightness Display	13 Candela		
Communication (IKI Overhead Butler Only)			
Gsm Network	4G	-	-
Maximum Number Of Connectable Iki-Overhead-Radio	2	-	-
Power Supply	ES2370-000	ES2371-000	ER3568-000
Battery Life	Min. 10 years		Approx 15 years
Battery	Lithium Battery		
Battery Total Display Time	2880 hours (120 Days)		

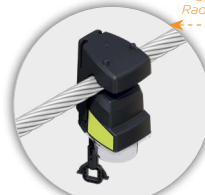
### Safety notes

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.

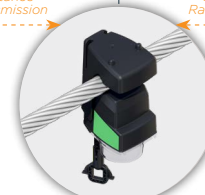
## IKI-OVERHEAD COMMUNICATION



IKI-OH R2  
Visual Indication



IKI-OH Radio R2.5  
Radio Link Up To 10m



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



IKI-OH Radio R2.5  
Radio Link Up To 10m



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Bayonet hot stick	270 mm
Plug-on Eyelet	290 mm
Eyelet	240 mm

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

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