

INTELEGENCE FOR ENERGY DISTRIBUTION GRID MONITORING, PROTECTION, AUTOMATION



IKI-SHORT CIRCUIT INDICATOR

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IKI 20

Short circuit/earth fault indicator



IKI 20

- Self test function
- Analog and digital outputs
- User adjustable parameters
- Fault detection and indication features
- Applicable in closed loop or radial networks
- Free of maintenance, powered by current transformers

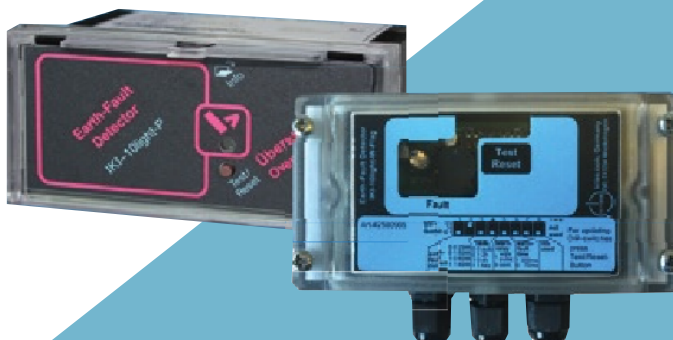
IKI 23

- No battery required
- Integrated self-test function
- Conformance to IEC standard IEC 61243-5
- Maintenance-free due to self-test and self-monitoring
- Voltage detection system module for retrofitting IKI-23
- Complete insulation monitoring of the capacitive divider
- Result: Fault-detection and voltage detection in one space-saving housing



IKI 23

Directional fault indicator



IKI 10light

IKI 10 LIGHT

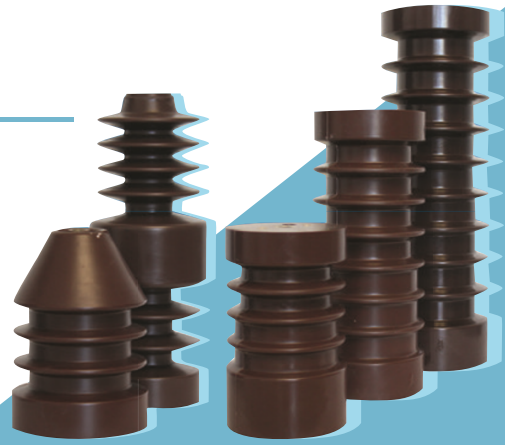
Earth Fault Detector

- Earth fault detector
- Reliable fault detection
- Dry contacts for remote monitoring
- Parameters adjustable by user
- Self test function
- Include energy buffer
- Included split core transformer
- Wall mountable or panel type housing available
- Optional blinking unit for remote outdoor indication

CAPACITIVE VOLTAGE SENSOR

For Voltage Detection and Voltage Measuring

- Capacitive sensors for 12 - 36kV
- Voltage detection
- Voltage measuring
- With Post-insulator functionality (TSKA) or without post functionality (KKE)

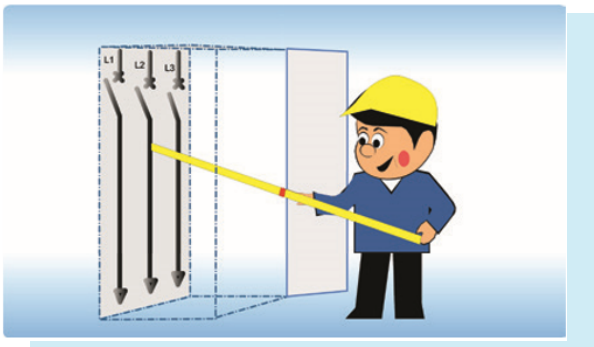
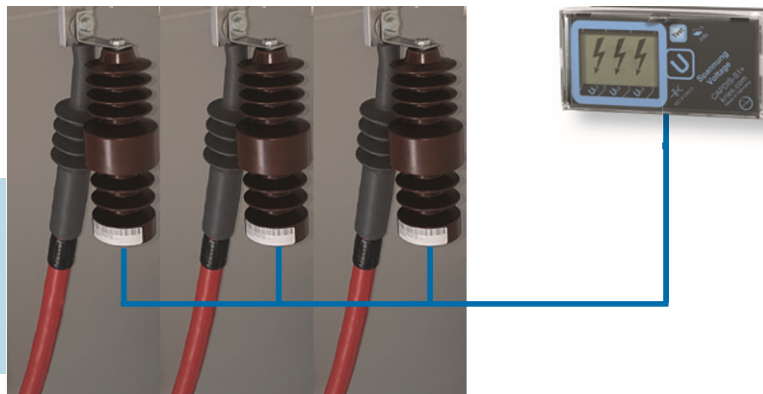


Capacitive Voltage Sensor

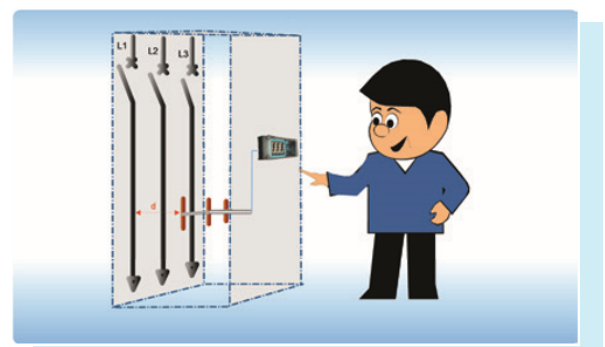


MOUNTING KIT FOR VOLTAGE SENSORS

- easy retrofitting of voltage sensors directly at cable terminations of air-insulated switchgears
- minimal effort = minimal disconnecting time
- safe voltage detection with CAPIDS due to closed switch doors during operation



Until now: No Fault-arc protection during voltage detection due to open door.

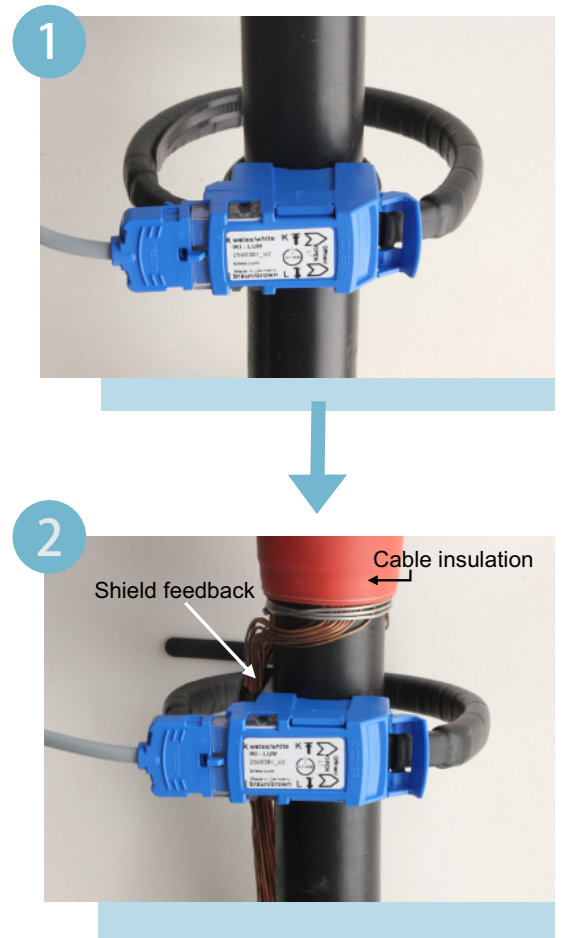
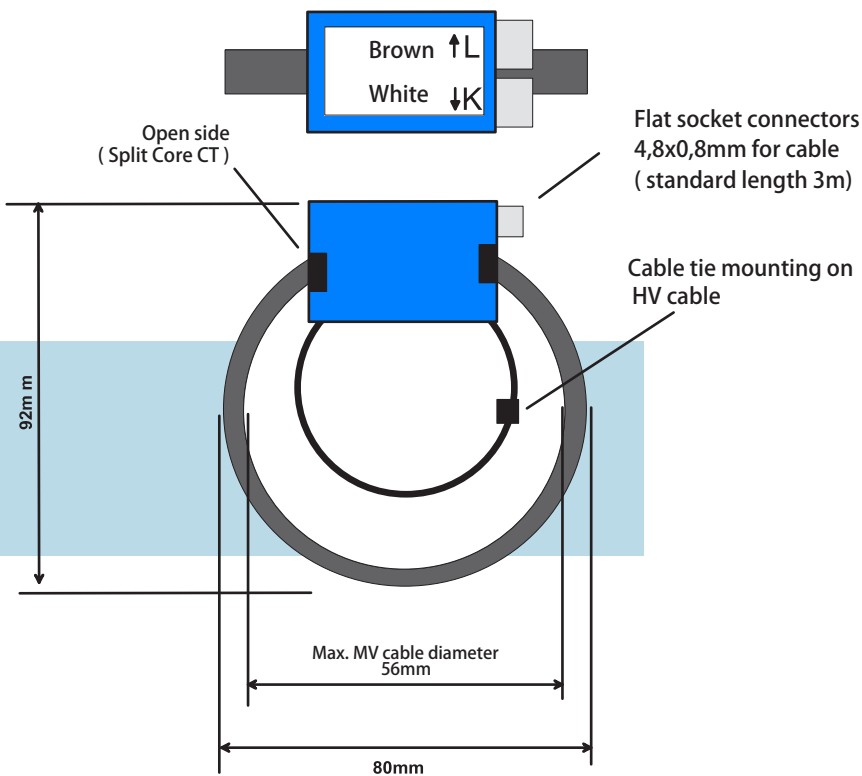


Today, state of the arc protection against fault-arc during operation and voltage detection due to closed doors.

CURRENT TRANSFORMER IKI-LUM-D92

The current transformer IKI-30-LUM-D92 has a separable core and is suitable for retrofit to low-voltage cables, touch-proof shielded medium-voltage single-conductor cables and to touch-proof single conductors of three-conductor cables. The current transformer can also be attached to isolated low-voltage busbars (< 1kV).

- Open CT core, attach CT to cable with cable tie, close CT core
- Orientation: "K (P1)" towards busbar
"L (P2)" towards consumer
- Shield feedback : see picture no 2
- Mounting at optional available bushing holders. (For screened pipes only)



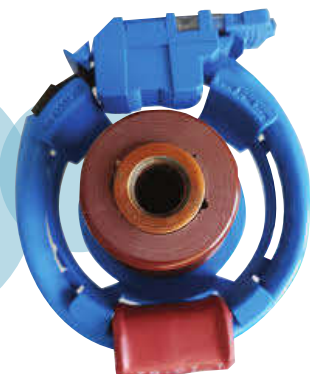
Current Transformer











IKI-LUG



IKI-LUM



	Voltage detection system	Voltage detection system with relay output	Voltage detection system with relay output	Voltage detection system (with relay output)	Voltage detection system for retrofit	Voltage detection system for retrofit
	CAPDIS-S1+ (R4.5)	CAPDIS-S2+ (R4.5)	CAPDIS-S2_55	CAPDIS-S1(S2)_HV	CAPDIS-PI-HR	CAPDIS-PI-RR4
						
Item no.	2502145	2502134	2502134_H002	2502145_H001 (2502134_H001)	2501382	2501384
Application	Voltage detection	Voltage detection Voltage monitoring Interlock of earthing switch	Voltage detection Voltage monitoring Protection functionality	Voltage detection Voltage monitoring for high-voltage applications	Retrofit of capacitive interfaces	Retrofit of capacitive interfaces
Standard	IEC 61243-5	IEC 61243-5	IEC 61243-5 IEC 60255-26	IEC 61243-5	IEC 61243-5	IEC 61243-5
Voltage level	LRM	LRM	LRM	LRM	HR auf LRM	HR auf LRM
Display	LCD	LCD + LED	LCD + LED	LCD + (LED)	LCD	LCD
Indication for	Voltage present Maintenance test passed Overvoltage Asymmetric condition Broken lead	Voltage present Maintenance test passed Overvoltage Asymmetric condition Broken lead Aux. power missing	Voltage present Maintenance test passed Overvoltage Asymmetric condition Broken lead Aux. power missing	Voltage present Maintenance test passed Overvoltage Asymmetric condition Broken lead (Aux. power missing)	Voltage present Maintenance test passed Overvoltage Asymmetric condition	Voltage present Maintenance test passed Overvoltage Asymmetric condition
Relay output	-	2 changeovers	2 changeovers	(2 changeovers)	-	-
Self test	yes	yes	yes	yes	yes	yes
C2m	settable, 6 values	settable, 6 values	settable, 6 values	settable, 6 values	fixed	settable, 8 values
Un	1 - 52 kV	1 - 52 kV	1 - 52 kV	1 - 480 kV	1 - 52 kV	1 - 52 kV
Auxiliary power	-	24 ... 230 VAC/DC	24 ... 230 VAC/DC	(24 ... 230 VAC/DC)	-	-
Interface to IKI	Y-Cable	Y-Cable	Y-Cable	Y-Cable	-	Y-Cable
Accessories	Cable set	Cable set	Cable set	HV cable set	-	-

	Voltage measurement	Voltage amplifier
	Capdis-M	Capdis-4(o)
		
Item no.	2500785	2500307(2502073)
Application	Voltage measurement and monitoring	Voltage amplification
Norm	IEC 61243-5	IEC 61243-5
Voltage level	LRM	4x100 V, 0.5 VA
Indication for	LCD + LED: Voltage, frequency, alarms	-
Relay outputs	-	2 changeover contacts (-)
Auxiliary power	from S2+ or CAPDIS-4	24 ... 230 VAC/DC
Additional outputs	ModbusRTU optional	4 x 4...20 mA