

Retrofittable Voltage Detecting Systems for medium voltage (VDIS). Conversion of an capacitive interface into an integrated Voltage Detecting Systems according to IEC 61243-5 or IEC 62271-213.



Properties

Retrofitting without intervention in the switchgear

Retrofitting to all interfaces according to IEC 61243-5 resp. IEC 62271-213 possible

No battery required

Voltage test as well as self-test without battery or auxiliary voltage

Maintenance-free

No periodic maintenance test required due to permanent secondary-side insulation monitoring

Primary-side insulation monitoring of the capacitive divider

Early detection and indication of insulation losses in the primary C1 of the capacitive divider

Integrated self-test function

No external test device is required to test for absence of voltage. Integrated auxiliary voltage independent function test, according to patent DE 103 04 396.

Integrated three-phase measuring point

The device has a three-phase LR measuring point for phase comparison, rotating field direction measurement, etc.

Retrofit defective HR interfaces

that no longer meet maintenance test requirements.

Integrated Y-interface

For connection of an external directional fault detection system or load flow monitor (e.g. IKI-23, IKI-50), connection via optional Y-cable.

Technical Data

Device data

Article number	2501384
Product designation	CAPDIS-PI-HR_RR4 Retrofittable VDS for defective HR interfaces
Standard	IEC 61243-5, IEC 62271-213
Required data for order	Nominal voltage Un, size of coupling capacitor C1, type of interface present (HR, LRM, ...)

Functions

Intrinsic safety	Device is intrinsically safe
System connector (ankled)	✓
Rotatable	180°

Controls and display

Front display	LC-Display
Controls	Self-test button

Dimensions and type of installation

Case height x width x depth	52 x 111 x 38 mm
Norm cutout dimensions	DIN IEC 61554:2002-08
Installation type	Pluggable

Operating conditions

Operating temperature	-25°C ... 75°C
Storage temperature	-25°C ... 75°C
Protection class	IP54
Voltage level	1..52 kV (Medium-voltage)
Rated frequency	50 Hz, 60 Hz, 16 2/3 Hz
Type of interface	HR to LRM, HR-interface with failed maintenance test
Lifetime	Minimum 33 years (MTBF)

Voltage supply

Battery	No battery required
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Accessories

Article number	Product designation
2501288	Y-cable IKI to CAPDIS-PI-RR4 1.5 m 2 x system plug
2501289	Y-cable IKI to CAPDIS-PI-RR4 0.3 m 2 x system plug
2501293	Y-cable IKI to CAPDIS-PI-RR4 3 m 2 x system plug