

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.

### Extra-long connection cables

The connections for L1 and L3 are designed with a length of 300 mm in order to be able to connect interfaces that are far apart.

## Technical Data

### Device data

|                         |   |
|-------------------------|---|
| Article number          | 2501384_H002  |
| 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 |
|---------|---------------------|

## 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   |