



ekorsys units: protection,  
telemangement & communication

**ekor.vpis – ekor.ivds –  
ekor.sas – ekor.spc**

Voltage Presence Indication Units

Reliable innovation. Personal solutions.

## Preface

- » Voltage presence indication: **ekor.vpis**
- » Voltage presence / absence indication: **ekor.ivds**
- » Earthing prevention: **ekor.sas**
- » Phase comparator: **ekor.spc**

## Technical Characteristics

### ekor.vpis

- » Selfpowered, cubicle-integrated indicator that shows the presence of voltage in the phases through permanent light signals.
- » Designed in accordance with standard IEC 61958.
- » It has easily accessible test points for performing the phase balance test.
- » Available in ultrasensitive version.

### ekor.ivds

- » Voltage presence / absence detector with permanent light signals and, optionally, free auxiliary contact for remot signalling of the corresponding indication.
- » Designed in accordance with standards IEC 61243-5 and VDE 0682 Part 415.

### ekor.sas

- » Acoustic earthing prevention alarm unit. Selfpowered, it operates in association with the earthing switch shaft and the voltage presence indicator **ekor.vpis**.
- » The alarm is activated when the earthing switch actuation shaft access lever is operated while there is voltage in the cubicle's Medium Voltage incoming line. An acoustic alarm warns the operator that a short-circuit may be caused in the network if the operation is carried out, resulting in greater safety for individuals and equipment and the continuity of supply.

## Applicable standards

### ekor.vpis

IEC 61958

### ekor.ivds

IEC 61243  
VDE 0682 Parte 415  
IEC 61958  
IEC 60068-2-78

### ekor.sas

IEC 61958

### ekor.spc

IEC 61958

## ekor.spc technical characteristics

### General

Frequency [Hz] 50

### Indication

Maximum balance angle 10°

Maximum unbalance angle 60°

Maximum response time [s] 1

Minimum indication frequency [Hz] 1

### Constructive design

Box IP rating IP47

Terminal IP rating IP2X

Weight [g] 200

Maximum distance to **ekor.vpis** [m] 4

### ekor.spc

- » Electronic device that compares the phases in feeder functions in secondary electrical distribution installations.
- » This element is associated with Ormazabal's **ekor.vpis** voltage presence indication unit.
- » The purpose of the **ekor.spc** phase comparator is to check that none of the Medium Voltage connections have been swapped before closing Medium Voltage circuits.
- » Indications are shown by means of LEDs which display any phase unbalance under the conditions outlined in standard IEC 61958.

## Family

### ekor.vpis

- » Voltage presence in phases indicator light



### ekor.ivds

- » Voltage presence or absence indicator light



### ekor.sas

- » Earthing prevention acoustic indicator



### ekor.spc

- » Phase comparator device

