



ekorsys units: protection,
telemangement & communication

ekor.rtk

Voltage detection unit

Reliable innovation. Personal solutions.

Preface

Voltage detection unit for monitoring the status of Medium Voltage lines:

- » Detects presence/absence of voltage in each phase in the 3 kV to 36 kV range
- » Measurement of voltage on capacitive bushings
- » Detection time from 50 ms to 100 ms
- » Integrated in cubicles with circuit-breaker and feeder functions
- » Does not require coupling to the Medium Voltage line (without voltage transformers)

Tests

Insulation

IEC 60255-5

Electromagnetic Compatibility

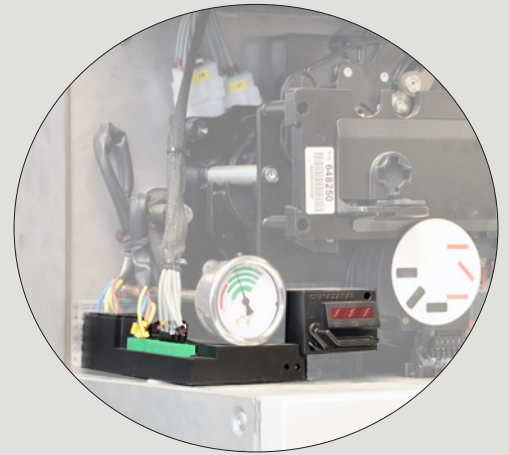
EC 60255-22-1
IEC 60255-22-2
IEC 60255-22-3
IEC 60255-22-4
IEC 61000-4-5
IEC 61000-4-6
IEC 61000-4-8
IEC 61000-4-12
EN 50081-2/55011

Climatic

IEC 60068-2-1
IEC 60068-2-2
IEC 60255-2-30

Mechanical

IEC 60255-21-1
IEC 60255-21-2



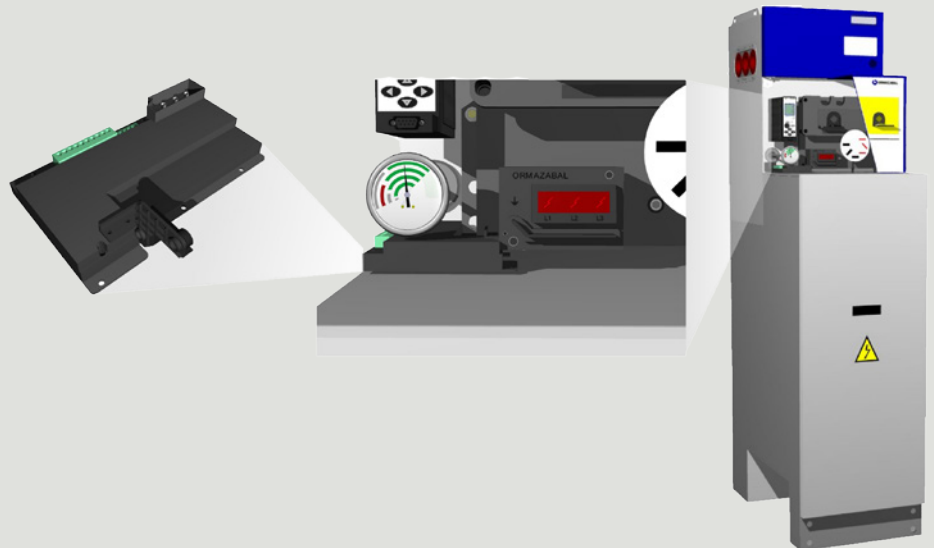
Applications

- » Local or remote control installations
- » Automatic transfers

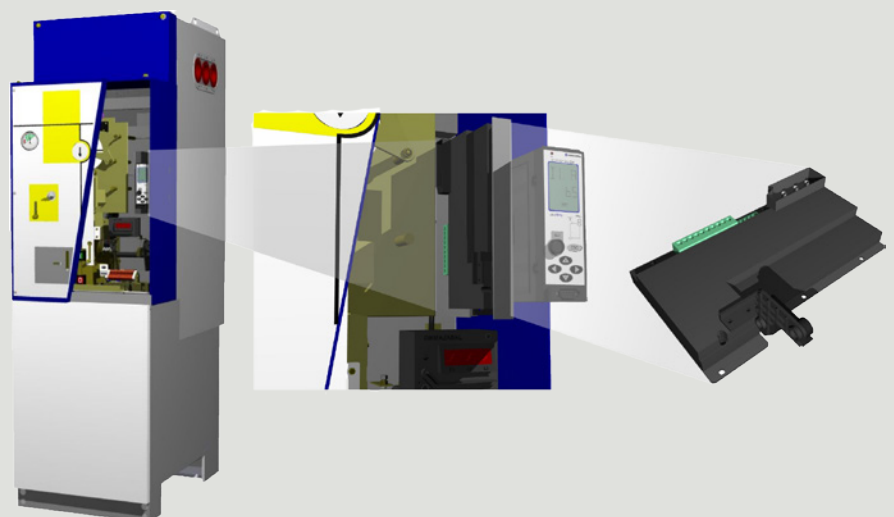
Most notable features:

- » Voltage sensing without VT
- » Designed for local control of installations

Feeder cubicle



Circuit breaker cubicle



Technical Characteristics

Power Supply Voltage

AC [V...V]	17 ... 260
DC [V...V]	17 ... 360
Consumption [W]	< 2.5

Line Voltage

Detection values [kV...kV]	3.5 ... 36
Measurement tolerance [%]	+/- 10

Indication Time

Time delay [ms]	50, 100
Time tolerance [ms]	+/- 10

Frequency

[Hz; Hz]	50, 100
----------	---------

Output contacts

Voltage [Vac, Vac]	380, 230
Current [A]	16 (AC)
Switching power [VA]	500 (resistive load)

