



ERONEX ENERji

PRECISION FOR EVERY SYSTEM

SENSORS FOR SMART GRID

Superior innovative sensor solutions



**Major changes are underway
across our power grid.**

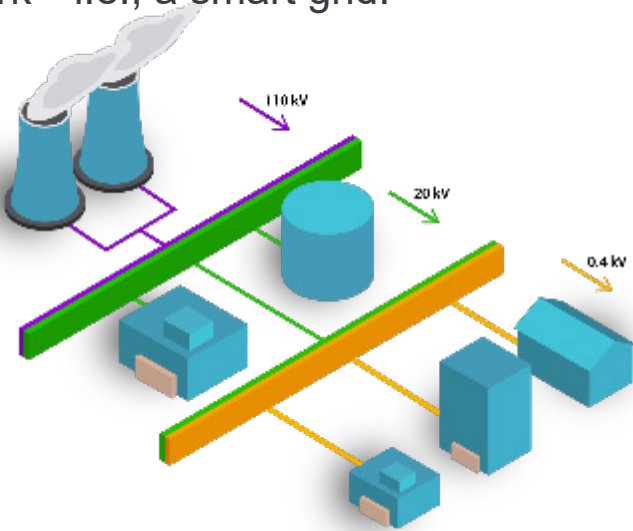
**Ring main units are getting
'smarter.'**

Conversion from unidirectional current flow to
bidirectional.
mostly driven by renewable energy sources like solar

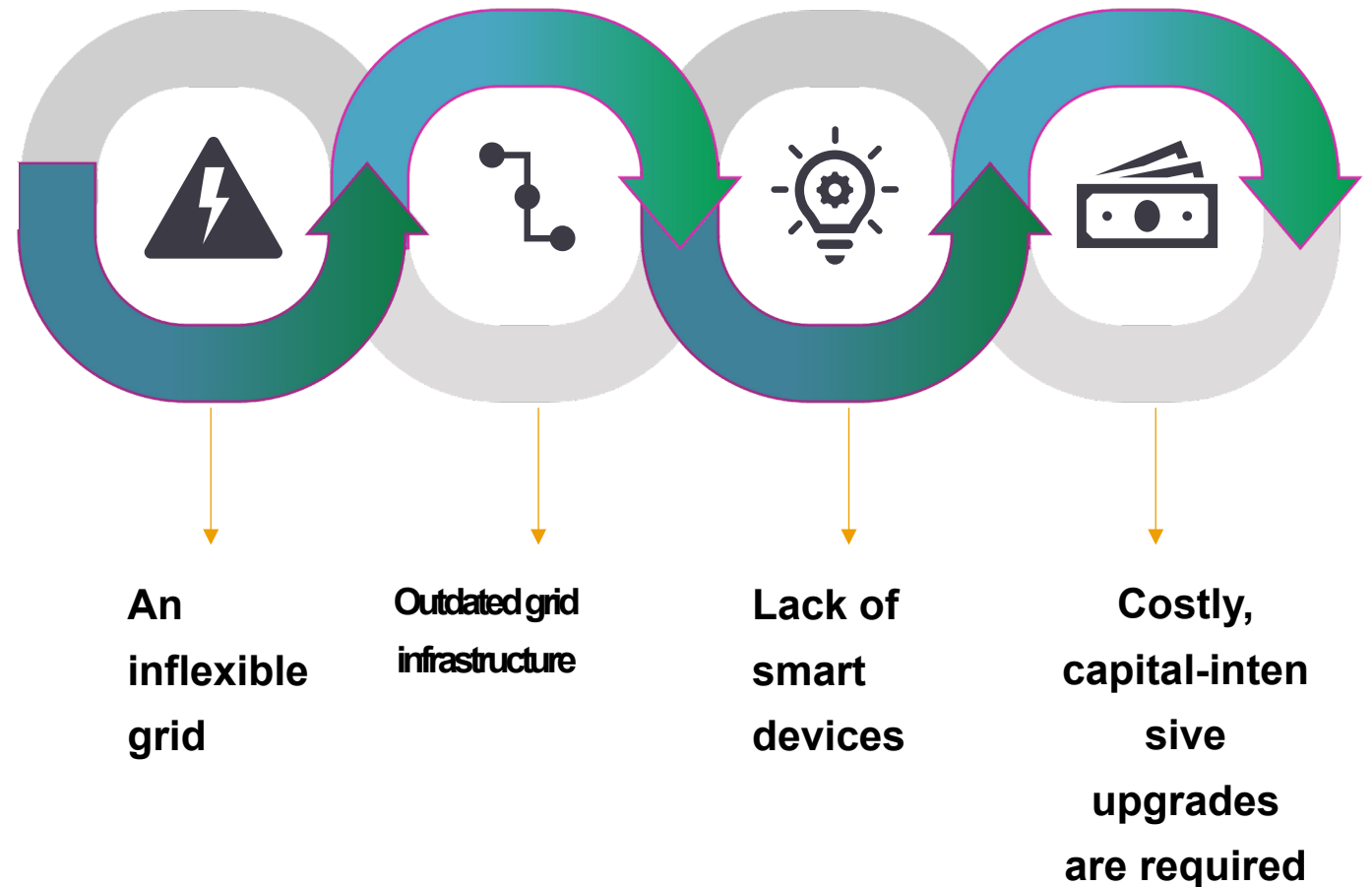


CHALLENGE

The expected surge in renewable energy, the rise of electric vehicles, and the shift from big power plants to small prosumer (producer-consumer) units are accelerating the transformation of today's grid into an active distribution network—i.e., a smart grid.



To move forward with expanding the existing grid, energy distribution companies are facing the following challenges:



Smart devices that
can balance the grid
based on supply and
demand!

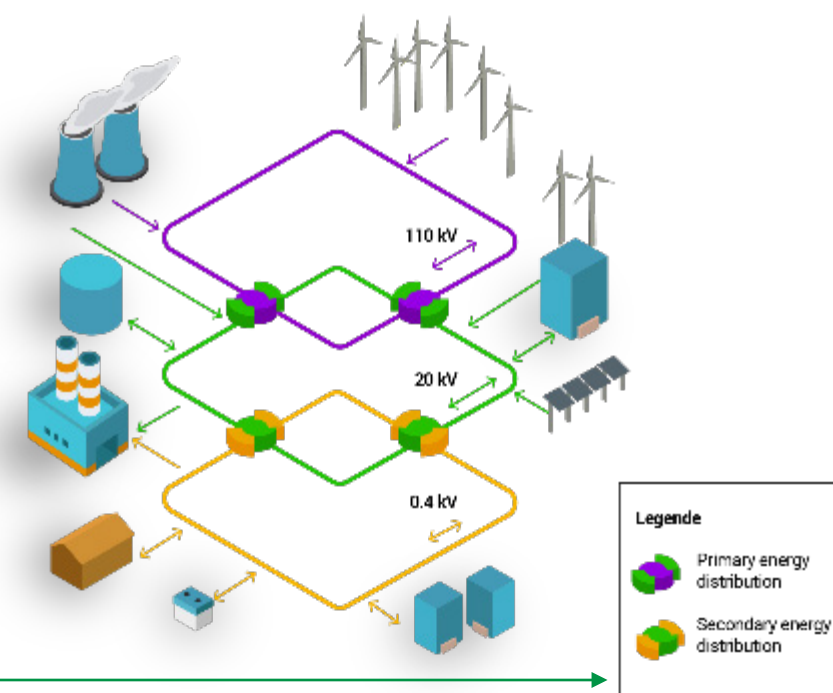
Solution

One of the key components that keeps an efficient, dependable smart grid running is the primary transducer, which transforms high voltages and currents into lower-voltage signals that measurement devices can process.

Products enable:

- High-precision fault detection
- Monitoring
- Voltage level control
- Protection functions
- Harmonic measurement

Our sensors are positioned at the junctions of different voltage levels (primary or secondary power distribution).



Our Technology

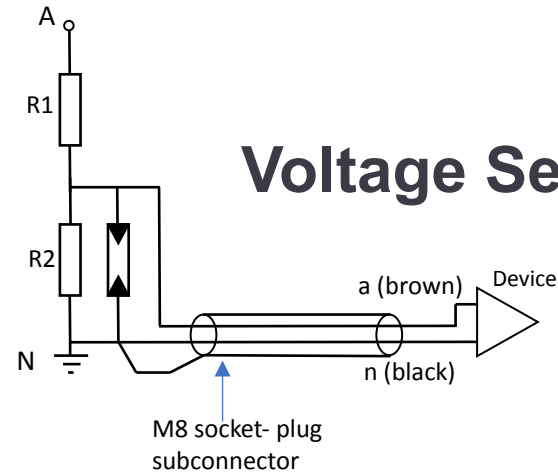


Core Technology

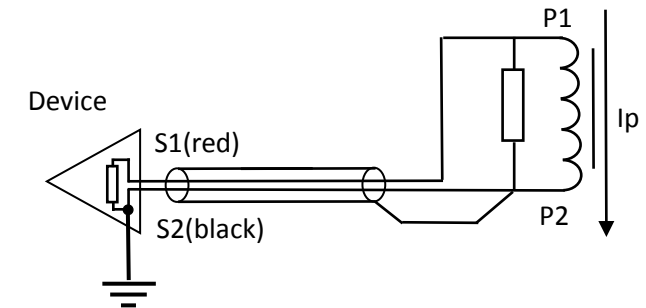
The technology is based on two fundamental principles:

An ohmic-capacitive hybrid divider is used for the voltage sensor, while the current sensor uses an inductive coil with a shunt resistor

Both technologies offer more advantages than other technical solutions



Voltage Sensor Principle

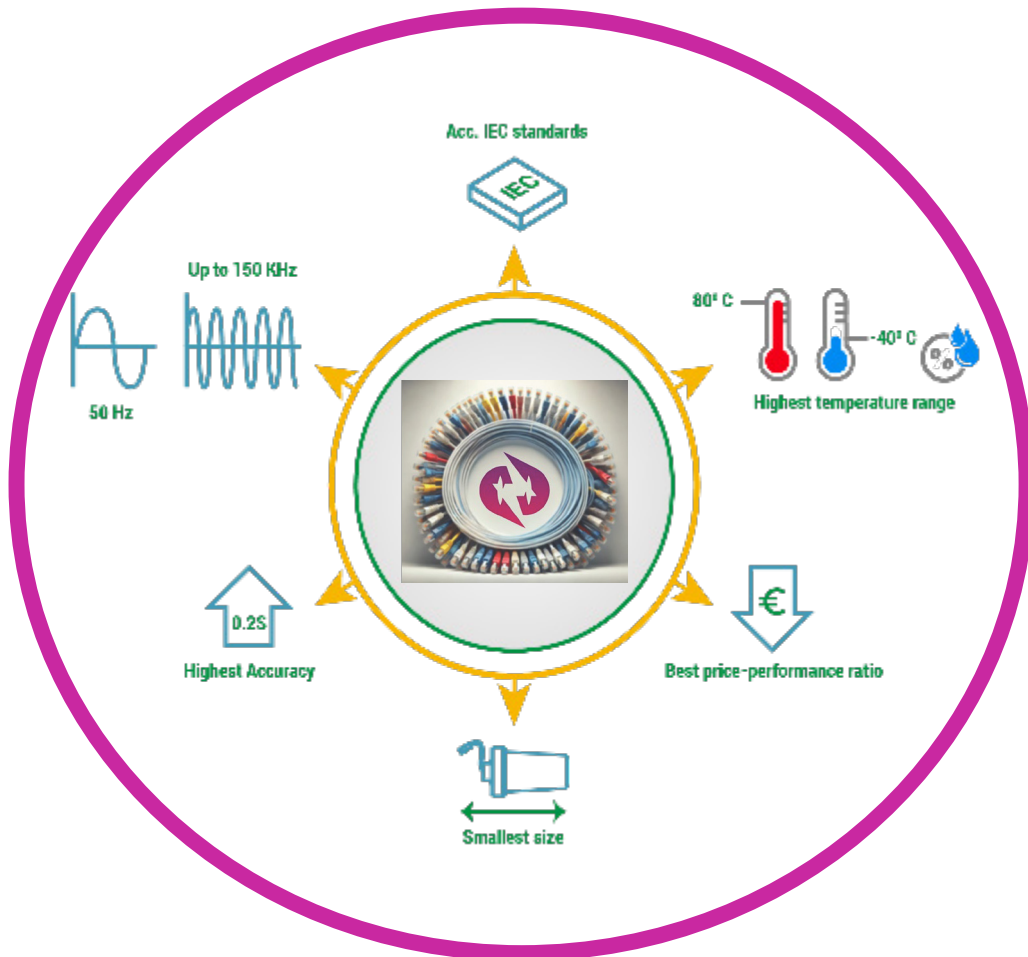


Current Sensor Principle

Premium-quality products



A trailblazing innovator in
non-conventional transformers



Technical excellence will translate
into economic advantage!

Our Products

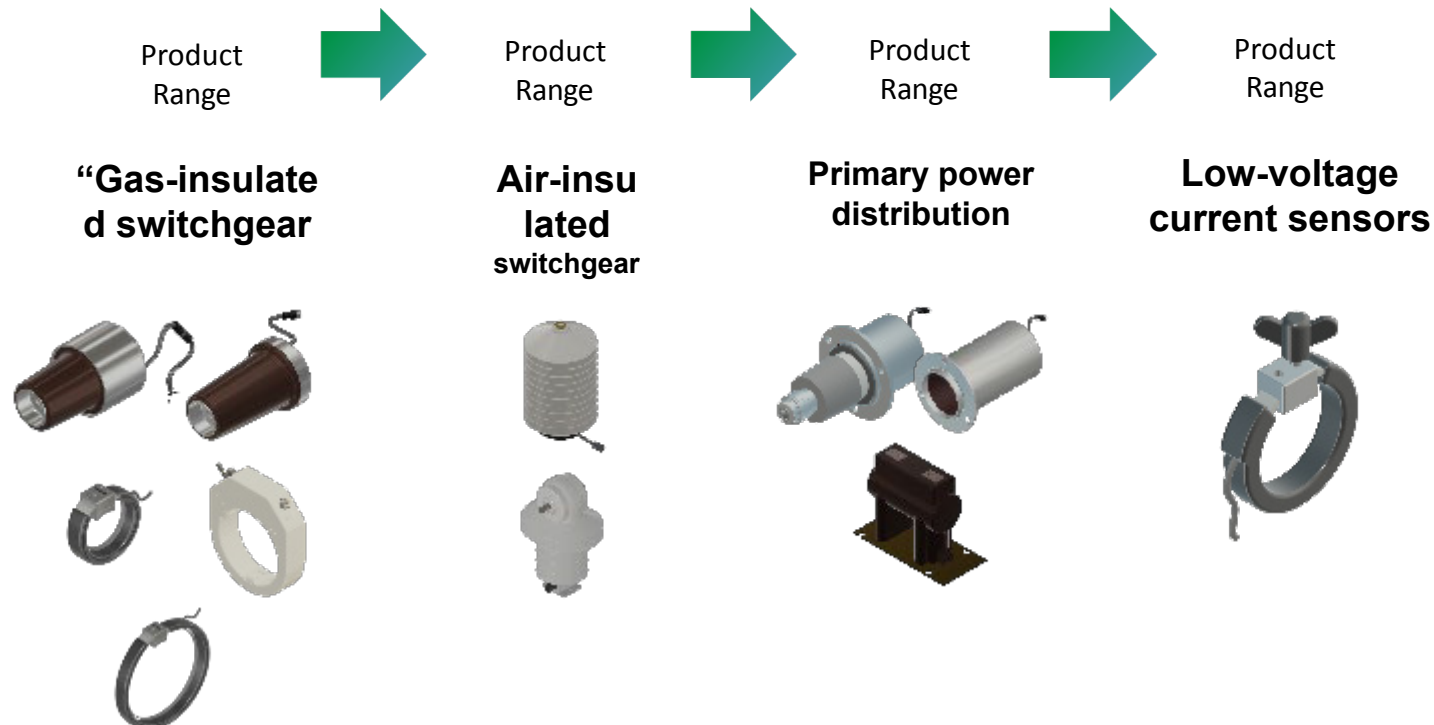


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High-quality products with a true customer-first focus

These products will be used across primary and secondary power distribution—especially at the medium-voltage level—as well as in low-voltage applications.



1. GIS

Secondary power distribution



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Voltage and current sensors for gas-insulated switchgear

Voltage
Sensor

CONE TYPE
SENSORS

Current
Sensor

RING TYPE
SENSORS

SPLIT TYPE
SENSORS



1. GIS

Secondary power distribution



Voltage sensors for GIS (gas-insulated switchgear) – FORM FACTOR

Voltage
sensors

CONE TYPE
SENSORS

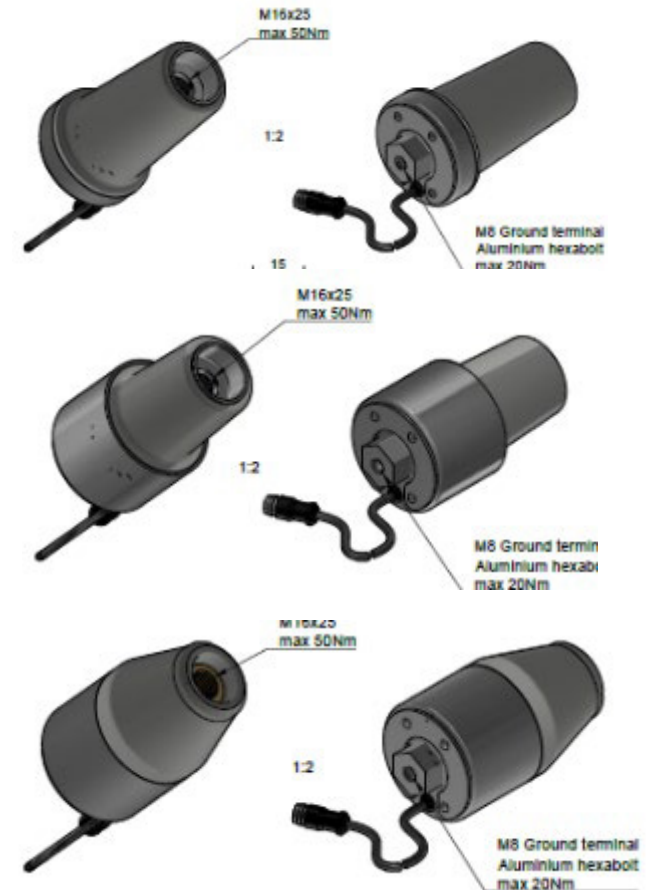
Type C cone
per IEC 50181



Compact form factor;
compatible with Nexans,
nkt, TE Connectivity
(Tyco), Südkabel, and
Cellpack



Nexans Type
B form factor
for TB480
T-connector



1. GIS

Secondary power distribution



Current sensors for GIS (gas-insulated switchgear)

Current Sensors

RING-TYPE SENSORS



Sensor for initial installation on bushings in medium-voltage switchgear



SSOXXX-XX

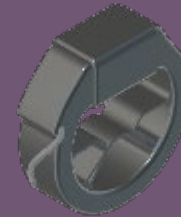
Current sensor for initial installation, compliant with IEC standards

SPLIT-TYPE SENSORS



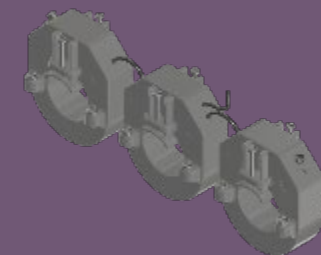
Retrofit current sensor with Phase Residual, including IEC-compliant correction factors

SSDFXXX-XX SSDWPXXX-XX



Waterproof

3SSOXXX-XX



2. AIS

Secondary power distribution



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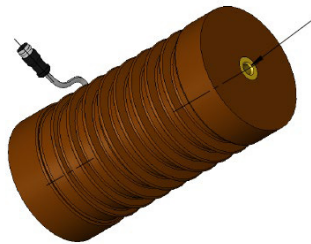
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Support-Type Voltage Sensors for Air-Insulated Switchgear

Widely used across Europe, North America, and Asia

support-type voltage sensor

VOLTAGE
SENSORS



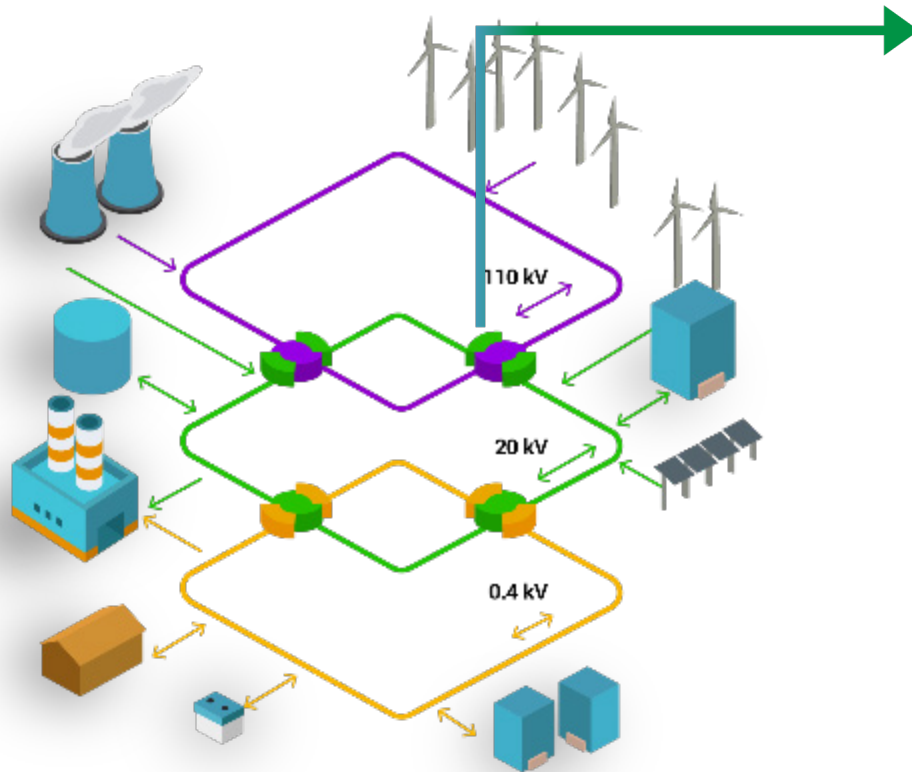
ERXXX-XX
Voltage sensor
with RJ45, M8,
etc. connectors
or bare leads,
compliant with
IEC standards



3. Primary power distribution



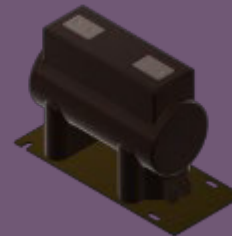
Combined block-type sensor integrating one voltage sensor, one current sensor, and (optionally) a conventional current transformer



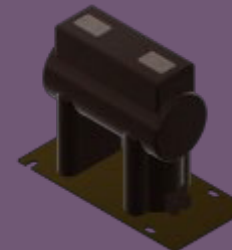
AIS

Our-Solution

K120A-xx



K240A-xx



Conventional transformers are used worldwide.

With our solution, a voltage transformer is no longer needed!



4. Low-Voltage Current Sensor



Highly adaptable sensor for low-voltage applications



High flexibility, easy installation



Accuracy up to Class 0.5 per IEC



Passive, rugged technology (LPCT)



Cost-effective design



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Key Strengths

Tailored to the customer
Custom development & manufacturing

One-of-a-kind expertise

Short decision cycles
and exceptionally fast
execution

Technology

Our technologies
deliver more
benefits than other
technical solutions
on the market!

Competitive advantage



Unique selling proposition (USP)



Multi-compatible strain sensor



Up to 150 kHz



Cone-type strain sensor
length <125 mm



Operating temperature
range: -40°C to +80°C



Let's shape change together!