

SMART CONNECTIONS • SMARTER GRIDS

Nexans Smart Accessories

SMART ADAPTERS & CONNECTORS

Nexans Smart Accessories integrate intelligence directly into medium-voltage connections, enabling reliable, future-ready power grids.

A smarter network for a more complex grid

Distribution networks are facing increasing complexity driven by the rapid growth of distributed renewable energy sources and the electrification of mobility. At the same time, new decentralized loads are being added to what was once a predictable grid system.

To manage this increasing complexity, grid operators need more precise and timely insights into network behavior. Moving measurement closer to the connection points where power is injected and distributed provides higher operational value than centralized sensing alone.

For distribution system operators, this evolution creates new challenges: maintaining grid reliability, ensuring interoperability and preparing existing and new assets for future requirements.

With a wide diversity of installed equipment and an increasing range of smart technologies, building a consistent, reliable and easy-to-maintain system becomes more demanding than ever.

The objective is clear:

to navigate this complexity and make the right choices today — ensuring long-term performance, cost efficiency and future readiness.

Nexans is committed to delivering innovative solutions and top-notch products in the field of electrical connections and accessories.

What you can expect from Nexans Smart Accessories

- A comprehensive portfolio of smart accessories for retrofit and new installations
- Technical innovation aligned with real smart grid requirements
- Robust, field-proven solutions designed for all network conditions
- Interoperable and adaptable designs, compatible with major measurement systems
- Easy installation, high durability and low failure risk
- Global expertise and presence supporting international projects

Rather than offering stand-alone components, Nexans Smart Accessories are designed as part of an integrated and evolutive system.

All solutions are tested under live conditions and developed to ensure long-term compatibility, reliability and performance across the entire grid lifecycle.

Together, we have the power to electrify the future!

One concept – two use cases

To digitalize distribution networks in a gradual and cost-efficient way, solutions are needed that address both existing assets and new installations. Nexans Smart Accessories follow a unified concept: intelligence is integrated directly at the connection point, where it delivers the greatest value for operation, maintenance and future expansion.

This approach allows grid operators to digitalize their networks step by step, combining retrofit solutions and smart-ready components within one consistent system.

Depending on the application, two complementary solutions are available.

NEXANS KAA4/KAA8 Smart Adapters

Upgrade intelligence without reworking the installation

- Smart upgrade of existing medium voltage installations
- No cable modification required
- No major rework or dismantling
- Minimal risk for ongoing operation
- Suited for installations where direct sensor integration is not possible.

Ideal for distribution system operators who want to digitalize their installed base step by step.

NEXANS 240TS Smart Connector

Smart ready from day one

- Integrated sensor port directly in the connector
- No additional cabling required
- One installation step instead of later retrofit
- Fast and safe installation enabled by the bail mechanism

Ideal for new substations and installations where smart grid functionality is planned from the beginning.

NEW

One concept that grows with your grid

By combining retrofit solutions and smart-ready components within one consistent approach, Nexans Smart Accessories allow power grids to evolve at their own pace. Operators can start where it makes sense today and extend functionality over time, without changing concepts, partners or system logic.

Smart retrofit for existing installations

Many medium voltage installations were not originally designed with digital monitoring in mind. NEXANS KAA Smart Adapters enable existing assets to be seamlessly upgraded with sensing capabilities, without dismantling equipment or modifying cables.

Designed as stand-alone smart adapters, KAA solutions allow intelligence to be added where direct sensor integration is not possible. This makes them particularly well suited for retrofit scenarios and for upgrading existing installations step by step.

Upgrade intelligence without reworking the installation

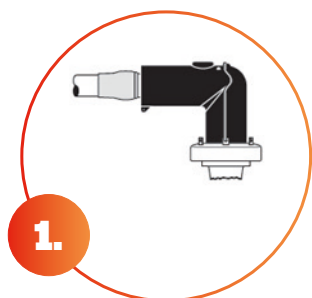
NEXANS KAA Smart Adapters are specifically developed to support retrofit applications in a simple and reliable way. By providing a standardized interface for sensor integration, they help reduce planning effort and compatibility risks across different switchgear types and installation environments.

- Stand-alone solution for retrofit applications
- Enables smart functionality on existing installations
- No cable modification required
- Suitable for remote and decentralized locations
- Compact design for space constrained environments

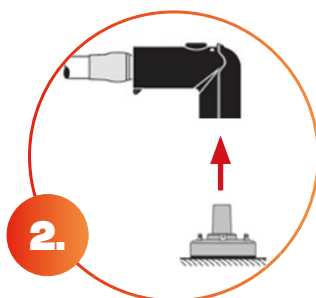


Ideal for gradual digitalization

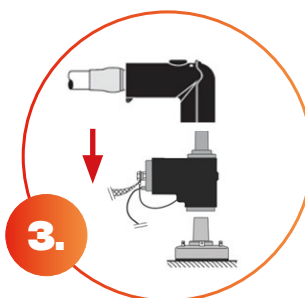
NEXANS KAA Smart Adapters are ideal for distribution system operators who want to expand smart grid functionality across their installed base without major changes to existing infrastructure.



1. Start with existing connector
Connector installed on the bushing



2. Disconnect the connector
Temporary unplugging without cable modification



3. Install the KAA Smart Adapter
Measurement interface added at the connection point



For more details and order instruction get the technical documentation

Smart adapter configuration

NEXANS KAA Smart Adapters are designed as stand-alone retrofit solutions, enabling sensing functionality to be added to existing medium voltage installations in a reliable and standardized way.

Kit content

The NEXANS KAA Smart adapter Range Kit is provided with all the following elements:



KAA4/8
Smart adapter

+



Voltage Sensor
AND/OR
Current Sensor

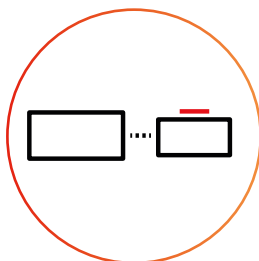
+



Sensor
secondary
cable

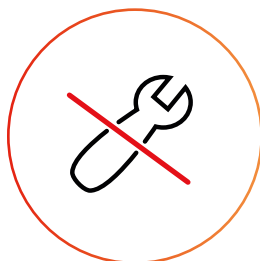
Product highlights for retrofit applications

Stand alone Smart adapter



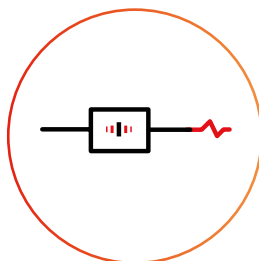
Add sensing capabilities
where direct integra-
tion is not possible

Retrofit without rework



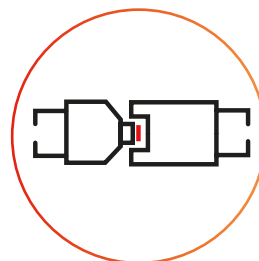
No cable modification
or dismantling
required

Integrated sensing Interface



Prepared for voltage
measurement

Interface A compatibility



Designed for use with
standard separable
connectors

Smart ready connections for new installations

New medium voltage installations increasingly require smart grid functionality from the start. The NEXANS 240TS Smart Connector is designed to integrate sensing capabilities directly at the connection point, making smart readiness a natural part of the installation.

By providing a dedicated sensor port within the connector, intelligence can be prepared during installation, without additional cabling or later modifications. This ensures a consistent and future-ready setup across new assets.



Smart ready from day one without additional cabling

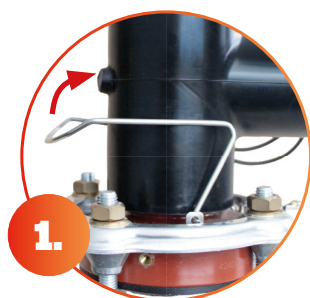
The NEXANS 240TS Smart Connector is specifically developed for new installations where efficiency, reliability and future readiness are key.

Smart grid functionality is integrated into the connector design, reducing installation effort and avoiding additional steps at a later stage.

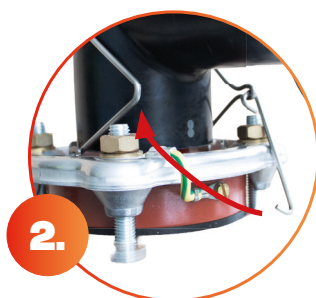
- Smart ready connector for new medium voltage installations
- Integrated sensor port directly in the connector
- No additional cabling required
- One installation step instead of later retrofit
- Fast and reliable installation supported by the bail mechanism

Designed for efficient and reliable installation

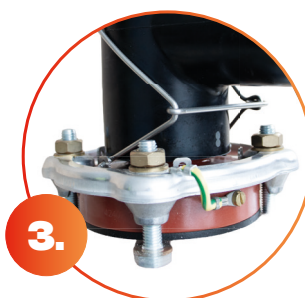
A key feature of the NEXANS 240TS Smart Connector is its bail based fixation mechanism. This enables fast and secure installation with reduced tooling and minimizes the risk of installation errors, especially in compact or space constrained environments.



1. Engage the front side
Initial positioning and alignment of the connector on the bushing



2. Hook the inner side
Bail hooked on the inner side to secure the connector



3. Installed position
Connector fully secured with the bail mechanism in its final position



For more details and order instruction get the technical documentation

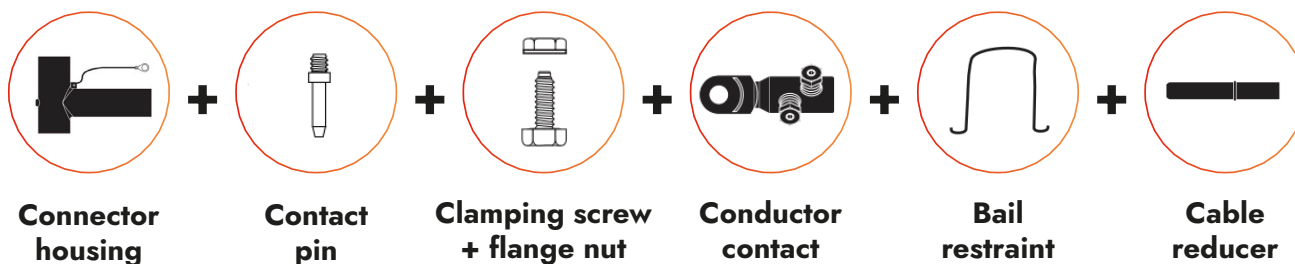
NEW

Smart connector configuration

The NEXANS 240TS Smart Connector is designed to integrate smart grid readiness directly into new medium voltage installations, combining efficient installation with long-term flexibility.

Kit content

The NEXANS 240TS Smart Connector Range Kit is provided with all the following elements:

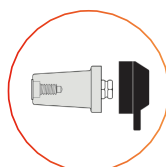


Options



The NEXANS 240TS Smart Connector can be used with standardized Interface C voltage and/or current sensors. Available from Nexans: Zelisko or ABB sensor.

**Voltage Sensor
AND/OR
Current Sensor**

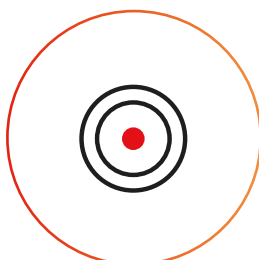


The NEXANS 240TS Smart Connector can also be used as a regular tee connector to connect MV cable to MV equipment. For such applications, the rear interface must be sealed with an insulating plug (incl. cap).

**Insulating
plug**

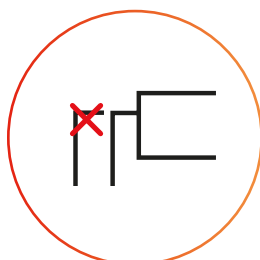
Designed to be **smart** **ready from day one**

**Integrated
sensor port**



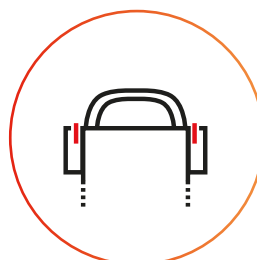
Smart grid readiness prepared directly in the connector design

**No additional
cabling required**



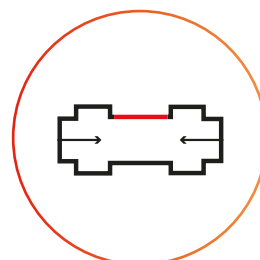
Sensor port is already integrated, avoiding extra installation steps

**Simple fixation
mechanism**



Fast, secure installation with a wire-bail, no screwing needed

**Installation-friendly
connector design**



Supports installation in a wide range of switchgear configurations

Together, let's build a **safe and sustainable** electricity grid.

ABOUT Nexans

Nexans is the global pure player in sustainable electrification, building the essential systems that power the world's transition to a connected, resilient, and low-carbon future. From offshore and onshore renewable energies to smart cities and homes, Nexans designs and delivers advanced cable solutions, accessories and services that electrify progress safely, efficiently, and sustainably.

With over 140 years of history, through three core businesses: PWR Transmission, PWR Grid, and PWR Connect, Nexans blends deep industry expertise with cutting-edge innovation to accelerate the energy transition, and better meet its customers' needs. Its unique E3 model, focused on Environment, Economy and Engagement, drives every action, aligning performance with purpose.

Nexans operates in 41 countries with 28,500 people and generated €7.1 billion in standard sales in 2024. As recognized climate action leader, Nexans is committed to Net-Zero emissions by 2050 aligned with the Science Based Targets initiative (SBTi) and expanding energy access through the Fondation Nexans.

Nexans is listed on Euronext Paris, Compartment A.
www.nexans.com | [#ElectrifyTheFuture](https://twitter.com/ElectrifyTheFuture)

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