



**POWER
GRID**

NEXANS SMART CABLE GUARD

MONITORING SOLUTION

Protect Your Power Network

The Future of Power Cable Monitoring



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Continuity of power supply is essential for businesses, industries, and utilities around the world. Smart Cable Guard, the cutting-edge cable system monitoring solution, offers unparalleled real-time protection for power networks, preventing costly failures and ensuring uninterrupted service. Whether it is for medium-voltage distribution systems or complex industrial operations, Smart Cable Guard guarantees reliable monitoring, diagnostics, and fault location in a single, easy-to-use system.

Why Choose Smart Cable Guard?



Real-Time on-line Monitoring:

Stay ahead of failures with Smart Cable Guard's constant, 24/7 surveillance of power cables systems. Immediate detection of anomalies ensures swift action and minimizes downtime.



Advanced Fault Detection:

Pinpoint exact locations of faults such as short circuits or open circuits. Reduce the need for extensive ground testing and repairs by isolating faults with unprecedented accuracy.



Preventive Maintenance:

Smart Cable Guard's advanced algorithms provide predictive insights, allowing you to schedule maintenance activities before a fault occurs. Save time, reduce repair costs, and avoid unexpected outages.



Cost-Effective & Scalable:

Whether for a small industrial site or a large utility network, Smart Cable Guard offers a flexible solution that scales to meet the needs of any operation. Invest in a monitoring system that grows with your network.



Minimizes Downtime:

Reduce operational interruptions by instantly diagnosing cable issues and initiating corrective actions without delay. This minimizes both revenue loss and repair time.

Key Features

Comprehensive Monitoring: Monitor cables on-line continuously for insulation deterioration, short circuits, and partial discharges over up to 15km.

Accurate Fault Location: Identify the exact point of failure down to within a few meters, allowing for faster repairs and reducing outage time.

Data Logging & Analysis: Gain insights from stored data to track historical performance and identify potential risk areas before they escalate into costly issues.

Remote Access: Control and analyze your network from any location. Nexans Cable Guard offers remote monitoring via secure cloud-based platforms.

Scalable to Any Network Size: From small industrial settings to large national grids, Smart Cable Guard is adaptable and can be scaled based on the complexity of your network.

Easy to deploy: Sensors are installed on existing medium voltage networks with very limited interruption time

How It Works:

Smart Cable Guard utilizes advanced sensor technology installed at key points across your network. Sensors are usually positioned at termination on earthing breads.

These sensors continuously collect data about the cable system's condition, sending critical information back to the system's central processor.

Whenever irregularities such as short circuit faults or insulation weaknesses are detected, the system sends real-time alerts to your maintenance team with different levels of risk assessment.

This proactive approach ensures swift response times, precise fault identification, and minimal operational impact.





Industries We Serve:

Utilities & Power Grids: Keep your energy flowing without interruptions by identifying potential weaknesses and eliminating faults before they cause power outages.

Industrial Plants: Ensure the reliability of your energy systems and avoid the costs of unexpected equipment shutdowns and production delays.

Renewable Energy: Solar farms, wind farms, and hydroelectric power plants can rely on Smart Cable Guard to ensure consistent energy output with minimal losses.

Client Success Stories:

"Since implementing Smart Cable Guard, our downtime due to power failures has reduced by over 60%. The accuracy of fault detection and the real-time data provided by the system has transformed the way we manage our energy infrastructure."

— **Distribution Utility Provider, Europe**



Why Nexans?

With over a century of experience in power solutions and innovation, Nexans is a world leader in advanced cable technology. Our Smart Cable Guard product powered by DNV reflects our commitment to developing efficient, reliable, and cost-effective monitoring solutions that safeguard your power network. Trust Nexans to deliver exceptional performance, cutting-edge technology, and a dedication to sustainability.

Take Control of Your Power Network Today!

Ensure your power infrastructure is always running at its best with Nexans Smart Cable Guard.