

# COMPACT

**MURR**  
**ELEKTRONIK**  
*stay connected*



## NEXT LEVEL SOLUTIONS

SMART SERVICE FOR SMART SYSTEMS

**Technologies change, we change. Sometimes quickly, sometimes slowly, but continually. The digital transformation is here and has already impacted people all across the globe. It has unlocked many opportunities and also has brought with it new challenges.**

When it comes to technology transitions, Murrelektronik has always been a thought leader. We have been there from the beginning as new trends established themselves as standards. Our approach is driven by a single question: How can our customers benefit from these new technologies?

The technology transition also requires new ideas to take our customers to the next level. Murrelektronik's outstanding technological expertise and our excellent customer service make us a strong partner to take you to the next level. Merging your specialist knowledge with our automation expertise allows us to develop the optimum solution for your needs.



➔ [www.murrelektronik.com/nextlevelsolutions](http://www.murrelektronik.com/nextlevelsolutions)

## NEXT LEVEL SOLUTIONS – SMART SERVICE FOR SMART PRODUCTS

Technological changes have revolutionized many areas in your organization and that of your end customer. The purchasing department is now able to tap into new savings potentials. Planners can design the best machine layout by working together with our experts. Machine and systems operators appreciate intelligent machines that are easy to operate. Management also has access to real-time-data that visualizes system utilization. The whole organization is taken to the next level because machines increase their run-time, production is only briefly interrupted for scheduled maintenance and the cost-effectiveness and productivity of smart machines and systems becomes a reality.

### THE LATEST TECHNOLOGY TRANSITION IS DRIVEN BY FIVE MAIN ASPECTS.

#### SWITCH FROM FIELDBUS TO INDUSTRIAL ETHERNET

... represents the shift from traditional, closed bus systems to open, Ethernet-based systems.

##### Your advantages:

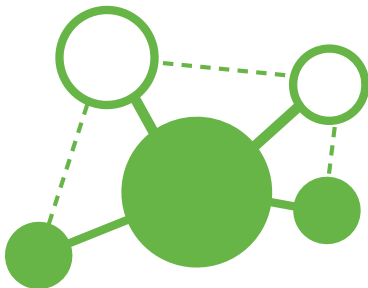
- The PROFINET standard enables high performance, outstanding functionality and straightforward service with minimum assembly effort.
- Ethernet standard wiring ensures stable connections.
- Switches let you design flexible topologies and connect networks.

#### IO-LINK ROLLOUT

IO-Link is the only international standard that connects sensors and actuator regardless of the fieldbus protocol. The development of this proven connection technology is a crucial step towards replacing simple sensors and actuators with smart devices.

##### Your advantages:

- The key benefit is that you can easily integrate devices with complex parameters into the controls unit.
- Your customers, the machine and plant operators, benefit from easily available data in the controls unit.
- Murrelektronik's advice is independent and neutral because we are not a sensor/actuator manufacturer.



## SAFETY

Until now, designing a safety system in your machine or system required a second controls unit. It was used to connect the safety sensors to the control system and reliably shut down the actuators independently from all other devices.

### Your advantages:

- Safety components can be integrated into the standard system wiring.
- All machine or system functions are integrated into one automation concept only.
- Setup becomes much easier thanks to the reduced wiring effort.



## INTERNET OF THINGS

For Murrelektronik, the internet of things is simply a new way of transferring data from smart devices into the cloud. This process is independent of the controls unit and is necessary to transfer data to a higher-level system.

### Your advantages:

- Once the data lands in the cloud, there are different ways of using it (e.g. for predictive maintenance, real-time analyses or creating a transparent overview of machine and production processes).
- The data can be transferred into the cloud in various ways: with a LAN cable or via the GSM standard.
- You can transfer data via an OPC-UA interface to the Murrelektronik cloud or an independent cloud.



## MECHATRONIC ELEMENTS

A trend is emerging towards modular design in the electrical installation of machines and plants. We support this trend and offer manufacturer-independent and system-independent pre-assembled, pre-configured machine elements. You can integrate these into your automation concept as standard components. This enables simplified designs and reduces the number of individual components in your machines and systems.

### Your advantages:

- We will help you create fully fledged system solutions for machines and systems using this approach.
- Modular engineering elements enable machine set up to become highly cost-effective and easy.
- We do not confine ourselves to our own products when putting together these elements and will add components from other manufacturers when it makes sense.



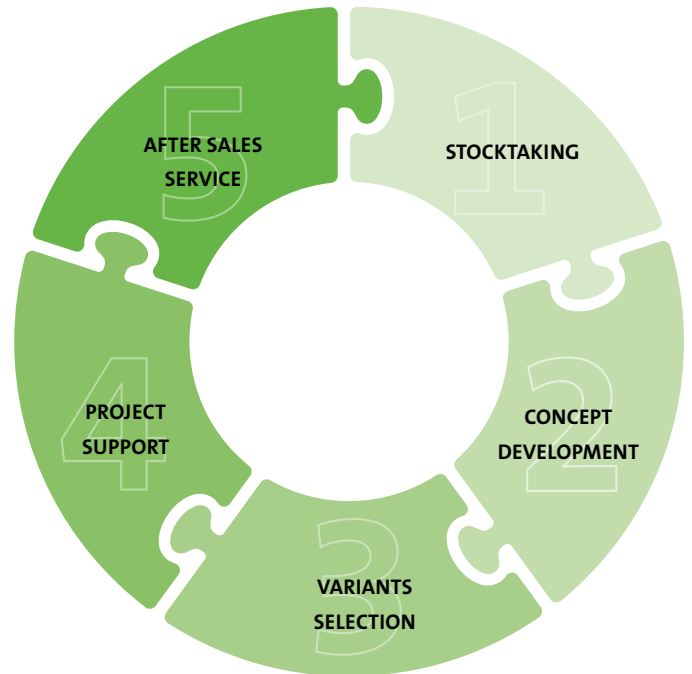


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We're there to support you with large and small-scale jobs. From on-site inventory to creating a comprehensive technical and economical concepts and even defining available material.

When you're implementing the optimum solution, we will support you with technical plans, electronic catalog information and even with commissioning. And we will always just be a phone call away, even for after-sales service when the products have been delivered and built into the system.

We have over 40 years of valuable industry experience and that is why we will be able to take you to the next level!



Behind every expert

is a strong team.

The future will bring many technological challenges.

We have the right experts for every future challenge.



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