

Seamless Electrical Installation

uKonn-X provides seamless, smooth, digital and visual support with bidirectional communication along the product creation process.

There is significant potential for increased efficiency in the planning and installation of electrical automation technology. Murrelektronik leverages this potential and takes the entire product development process to a new level with its seamless-approach. uKonn-X is the first seamless, digitally and visually supported system with bidirectional communication between design, development, assembly and commissioning. It avoids installation errors and at the same time leverages impressive savings potentials. "Time savings of up to 70 percent can be achieved with our new digital solution during installation and commissioning alone. Our system also significantly shortens troubleshooting. We talk about "seamless installation" in this context," says Dr. Paul Zeller, member of the Murrelektronik Executive Board.

uKonn-X is a system that, as a digital solution, addresses all interfaces with products within electrical automation technology. The goal is the smooth and effortless connection of all participants - human and product - along the entire product creation process. The system is based on the digitization of existing physical components and communication processes. In the first expansion stage, uKonn-X works as follows: The commissioning engineer or installer of a machine uses a mobile scanner to interpret a machine-readable code printed on the connectors from Murrelektronik. The digital solution shows the imported circuit diagram as well as the 3D model on a touch display to visualize which components must be connected to each other: LEDs light up on the corresponding fieldbus modules in the machine to indicate the assigned port. Once an installation step has been carried out, the installer confirms the correct connection on the display, thereby simultaneously triggering the automatic documentation. In a nutshell, this means: take the component or connector, scan it, identify the port thanks to the illuminated diode, attach or plug it in, confirm and trigger documentation. If changes to the installation are necessary, the installer or commissioning engineer can conveniently communicate these digitally to the design department via an integrated function. Starting from the installation, this supports development and improves the design of the machine while ensuring accurate documentation. The steps of the entire product development process are thus seamlessly and smoothly connected - Seamless

Electrical Installation.

uKonn-X interprets the circuit diagrams and creates the Bill of Material (BOM). Murrelektronik assembles individual connectors and provides them with a machine-readable marking. In addition, Murrelektronik delivers the connectors sorted according to their positioning within the machine, if requested by the customer.

Murrelektronik thus solves several problems in the electrical installation of machines with one stroke, since this is still a complex, sometimes time-consuming, tedious and error-prone task: To this day, electrical circuit diagrams, often several hundred pages long, have to be read, understood and correctly transferred to a cabling system. Sensors, actuators, switches, power supplies and much more must be interconnected. As a result, it is not uncommon for troubleshooting and correction to take up more time than the actual installation and documentation. uKonn-X shortens this time, which pays off in hard cash because installation and commissioning times are reduced, and the system goes into operation more quickly. In addition, uKonn-X simplifies the process to such an extent that it counteracts the growing shortage of qualified professionals.

Dr. Paul Zeller: "Murrelektronik is a proven specialist in seamless, decentralized electrical installation technology. We have now transferred this into the digital world and also made it intuitive for the user with the help of visual support to ensure a new level of quality. In short, with uKonn-X, Murrelektronik has made electrical installation simply seamless."



Caption (Scan): With uKonn-X, the installer uses a mobile scanner to interpret a machine-readable code printed on Murrelektronik's connectors.

Image: Murrelektronik GmbH



Caption (Plug): uKonn-X uses the digitized circuit diagram on a touch display to visualise which components the scanned connectors link with each other - on the corresponding fieldbus modules of the machine, LEDs indicate the assigned port.

Image: Murrelektronik GmbH



Caption (Confirm): Once the installer has plugged in the connector correctly, he confirms the correct connection on the display with uKonn-X, triggering automatic documentation at the same time - if changes to the installation are necessary, the installer or commissioning engineer can conveniently communicate these digitally to the design department using the integrated function.

Image: Murrelektronik GmbH

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