

➤ Modularisation ➤ Digitalisation ➤ Miniaturisation

New degrees of freedom - thanks to the switch in the connector

HARTING Technology Group is increasingly integrating electronics into the connector. The Han-Modular® Mini Switch provides additional flexibility in the digitisation of industrial production and opens up new topological degrees of freedom - inside the connector.

»Christine Öhls, Product Manager, HARTING Technology Group, Christine.Oehls@HARTING.com

Production processes are becoming increasingly modularised and flexible. This requires durable and efficient connections which supply machine modules with data, signals and power.

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Han® connectors are predestined for these applications: they give production modules flexible exchange and add-on possibilities - all while offering data, signals and power in a single connector. What

makes this possible is Han-Modular®, the market standard for rectangular modular connectors. Now, electronic components are also increasingly finding themselves at home in the Han-Modular® system and are opening up new possibilities.

MODULARITY ON ALL LEVELS

Current machinery has to work within its existing environment while also being capable of migration to Industrie 4.0. The ongoing digitisation of industrial production demands ever more intelligent hardware to include at the field level.

HARTING's modularly configured systems support the decentralised collection of data and their analysis. As a result, real production and IT applications are growing closer step by step.

INCREASING NUMBER OF ETHERNET CONNECTIONS

Machine vision is a basic technology of Industrie 4.0. The seamless integration of this technology into industrial production systems requires an intelligent and reliable supply of power and data. Here, switches find one of their applications. For example, camera systems are implemented in existing systems with the intention of optimising process flexibility and quality assurance management. The total number of devices that need to have an Ethernet connection is steadily increasing in future-oriented systems.

Interfaces play a central role in this context. Machine modules at all levels of the production process are reliably linked via connectors. Now, switch functionality is also finding its place in the connector. This provides the ability to deploy network devices closer to the field while



Han-Modular® Mini Switch

also reducing later installation effort when integrating new Ethernet nodes.

Han-Modular® AS BASIC SYSTEM

The possibility of also integrating switch functionality into the connector makes the digitisation of industrial production even more modular and flexible. Network participants move closer to the field, while existing applications are also easier to retrofit than before.

With its flexible design and rapid upgrade options, the Han-Modular® provides the ideal system to integrate switch functionality into the connector, thus creating additional user benefits. Here, flexibility is at the forefront. The Han-Modular® Mini Switch offers new topological degrees of freedom that are needed within Industrie 4.0. ■

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IN BRIEF

- Broad flexibility in the overall Han-Modular® system
- Emergence of new topological degrees of freedom
- Simple retrofitting of existing applications