Especially compact with noticeable optimization potential

Ethernet and PROFINET switches for industry networks

Making the familiar better, solving tasks more elegantly, and designing components to be as small and simple as possible, and that with good suitability for use. This is possible with the Ethernet and PROFINET switches from Helmholz! The entire data traffic in industrial systems takes place via Ethernet switches. It is thus all the more important to meet the increasing requirements for industrial machine networks. Therefore, improve the network infrastructure noticeably now.

Whether for Ethernet or PROFINET switches, it is the perfect solution for the respective requirement that counts in practice for the optimal realization of industrial networks.

Ethernet and PROFINET switches

The data transfer between controllers, PLCs, and other network participants takes place via switches. They are thus among the most important network components, also in terms of numbers. Even the most minor optimizations therefore have a noticeable effect on these components. This also applies to the design, because space in the control cabinet is of course limited.

The unmanaged Ethernet switches from Helmholz set standards here with a width of only 49 mm in the 5 port version or 65 mm for 8 ports. Thanks to their highly compact design, they can be used for a variety of industrial applications. The light and yet robust industrial design is suitable for installation on the DIN rail and can be very easily integrated into the network. Once plugged in, they are immediately ready for operation with the simple plug&play solution. The tool-free push-in connection for the power supply supports installation.

However, the use of conventional Ethernet switches in connection with PROFINET networks should be viewed with caution due to the absence of frame prioritizing and the related data load in many machine networks. PROFINET switches are the better alternative here.

One of the most important functions of a PROFINET switch is the prioritizing of PROFINET frames in the machine network. The managed switch can differentiate whether the frame is a web query, an FTP file transmission, a media stream, or a PROFINET frame. In the case of a high transmission load, the important frames can thus be prioritized in order to prevent frame losses. This thus means the necessity for clear and unambiguous segmentation between Ethernet and PROFINET.

Summary

With the current solutions from Helmholz, the high requirements of industrial networks in times of increasing automation can be securely and efficiently fulfilled, and noticeably optimized in the process.

You can also find more information on our products under: www.profinet-switch.com

Helmholz GmbH & Co. KG
Hannberger Weg 2
91091 Großenseebach
Germany

Phone: +49 9135 7380-0
Fax: +49 9135 7380-110
info@helmholz.de
www.helmholz.com