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Duermentingen, 2024-10-22

Georg Schlegel GmbH & Co. KG

Effective protection of open interfaces  
  
*SCHLEGEL introduces the new 2BSecure system at the SPS fair*

Duermentingen - The connectivity of machines and progressive digitisation are increasing the risk of data leaks or cyber attacks. SCHLEGEL developed the 2BSecure system - a flexible, effective and easy-to-install system to protect open interfaces on machines or equipment.

Unprotected interfaces on machines, like USB ports and Ethernet interfaces, may become an open gate for malware or data manipulation. In order to avoid this, 2BSecure was developed. With this system, the interfaces will be deactivated by default, limiting the acces to authorised personnel. A manual activation via key switch or RFID ensures that only authorised persons can activate the interface and thus enabling data transmission. The limitation to authorised personnel furthermore not only protects the machine control, but also sensible data within the whole network.

2BSecure was developed as a compact black box solution that is being installed between the interface and the end device. The black box is usually well protected within the machine, so there are no particular technical requirements for degree of protection and temperature. The connection is provided via a connection block with a rated voltage of 24 V, as is typical for the usual end systems. The interfaces fulfil the normal requirements for USB-A, USB-C and Ethernet. The dimensions of the black box are very compact with 50 x 60 x 17 mm.

2BSecure can be implemented without great effort in exsting machine and IT infrastructures. The control of the black box is conducted through the end device which guarantees a seamless and user-friendly implementation. 2BSecure can also be adjusted to different requirements and applications areas, be it the manufacturing industry, energy sector or critical infrastructure.

High legal protection requirements

With the control of open interfaces, 2BSecure contributes to comply with the strict requirements of the new EU machine directive 2027 as well as the NIS ("Network and Information Security") 2.0 directive of the EU. Those obligate companies that work in manufacturing, the energy or transportation sector to prove that their machines and networks are protected against unauthorised access.

Photos

Caption: SCHLEGEL developed the 2BSecure system - an easy-to-install system to protect open interfaces on machines or equipment.

Photo: Georg Schlegel GmbH & Co. KG

Photo 1:



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About Schlegel GmbH & Co. KG

Schlegel stands for innovation, quality and design. Founded in 1945, Schlegel is today a globally operating company with headquarters in Germany, sales offices in Austria, the US, China, and Singapore, and exports to more than 80 countries on all five continents. The core competences: Development and production of control units, pilot lights and terminal blocks. The product portfolio further includes bus systems, enclosures, limit switches, control panels and functional components. When developing new products, Schlegel sets high standards as to the design. More than 100 national and international design awards confirm the company's high level of design expertise, among these prizes are the iF Design Award, the Red Dot Award, the Good Design Award and the German Design Award.