MADE IN GERMANY

SCHLEGEL®
ELEKTROKONTAKT
Fascinating Electrotechnics

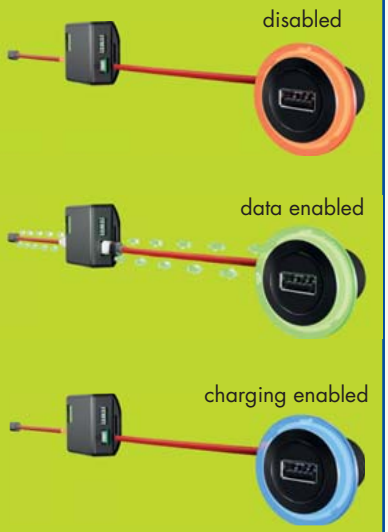
2BSecure

Protect your Interfaces

5-6-7 secure simple flexible

Maximum security for USB and ETHERNET interfaces

Machines and systems are more and more networked, which increases the risk of unauthorised access and cyber attacks. The new EU Machinery Regulation 2027 and the CRA (Cyber Resilience Act) contain strict cyber security regulations. Companies are obliged to comprehensively protect their machines against attacks and manipulations. 2BSecure, the innovative security solution for controlling USB and ETHERNET interfaces, offers the perfect answer.



How does 2BSecure work?

2BSecure is a compact black box that is placed between the machine control (PLC or IPC) and the connected USB or ETHERNET interface. The black box is equipped with connectors for USB-A and USB-C or RJ45 cables, so that the interface can be connected on one side and the machine control on the other. By installing 2BSecure, the interfaces are deactivated by default, so that an unauthorised access is no longer possible. Access to the interface is only possible after manual activation by authorised personnel. The activation can be done directly via the machine control, for example by password, or more conveniently with a key switch or RFID system connected in between, which offers further protection options. Both, as well as suitable USB or RJ45 jacks, are also available at SCHLEGEL.
Whether the USB or ETHERNET interface is enabled or disabled can be optimally displayed with a SCHLEGEL LED illuminated ring. The LED ring can be easily connected to the black box via a cable with JST connectors. Red means disabled and green means enabled for data transmission. The USB version also offers the option of using the charging function of the machine control. In this case, the colour of the LED ring would be blue.

➔ The advantages of 2BSecure at a glance:

- Maximum control of USB and ETHERNET interfaces
- **Prevents unauthorised access** and protects against cyber attacks
- Interfaces are disabled by default ⇨ thus access is impossible
- **Only authorised personnel can activate the interface**, for example via software (PLC/IPC) or key switch or RFID system connected in between
- **Easy integration** in existing machines and plants
- Compatible with the **CRA** and ther **Machinery Regulation 2027**
- Modular and flexible, adaptable to different application scenarios

2BSecure-RJ45 – network security at the highest level

ETHERNET interfaces on machines enable access to networks and control systems – and this is where major risks lie. With 2BSecure-RJ45, your network interfaces remain deactivated by default and can only be activated manually by an authorised user, e.g. via key switch or RFID.
Network security is a central component of the CRA and the Machinery Regulation 2027. With 2BSecure-RJ45 you not only meet legal requirements, but also effectively protect your machines against cyber attacks, unauthorised network access and manipulation. Protect your machines and networks through targeted control of the ETHERNET interfaces – with 2BSecure-RJ45.

<u>Technical data</u>

Connections:	2x RJ45
Functions:	data transmission (green)
Rated voltage:	24 V potential-free isolated from the data line
Dimensions:	50 x 60 x 17 mm
Type:	TBSRJ45A
Data rate:	100 mBit

<u>Accessories:</u>

LED light ring:	LR22K24DUORG_619 disabled = red data enabled = green
Cable:	VK_MLX3_MLX3

2BSecure-USB – protection for your machines and data

The USB interfaces on machines and systems pose a significant safety risk if they are accessible without control. With 2BSecure-USB, these interfaces are deactivated by default and only activated after explicit authorisation, e.g. by a key switch or RFID. This prevents the unnoticed introduction of malware or the unauthorised copying of sensitive data.
In times of increasing cyber threats and stricter security requirements, such as the new Machinery Regulation 2027 and the CRA, protection against external access is crucial. 2BSecure-USB ensures that your machines do not become a target for attacks and that you have full control on every use. This ensures that only authorised persons have access to the interfaces.
Protect your systems effectively against cyber attacks – with 2BSecure-USB.

Technical data:

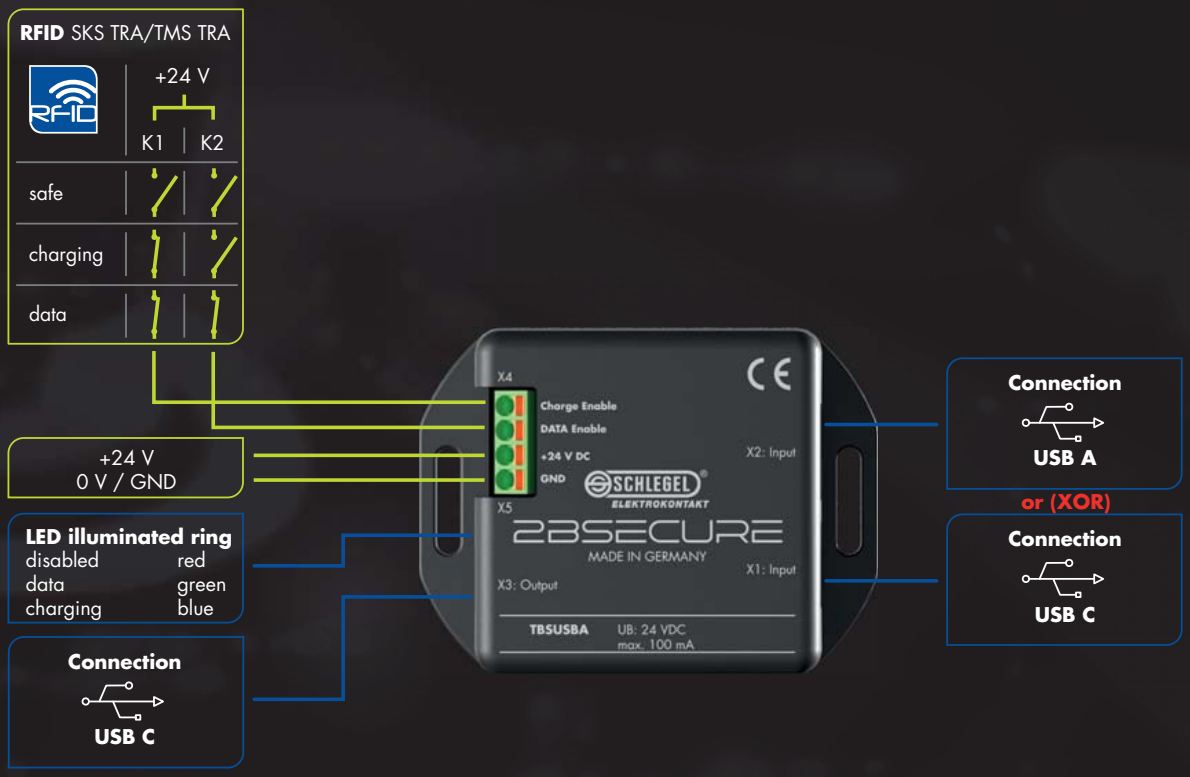
Connections:	1x USB-A, 2x USB-C
Fucntions:	data transmission (geen) charging (blue)
Rated voltage:	24 V potential-free isolated from data line
Dimensions:	50 x 60 x 17 mm
Type:	TBSUSBA

Accessories:

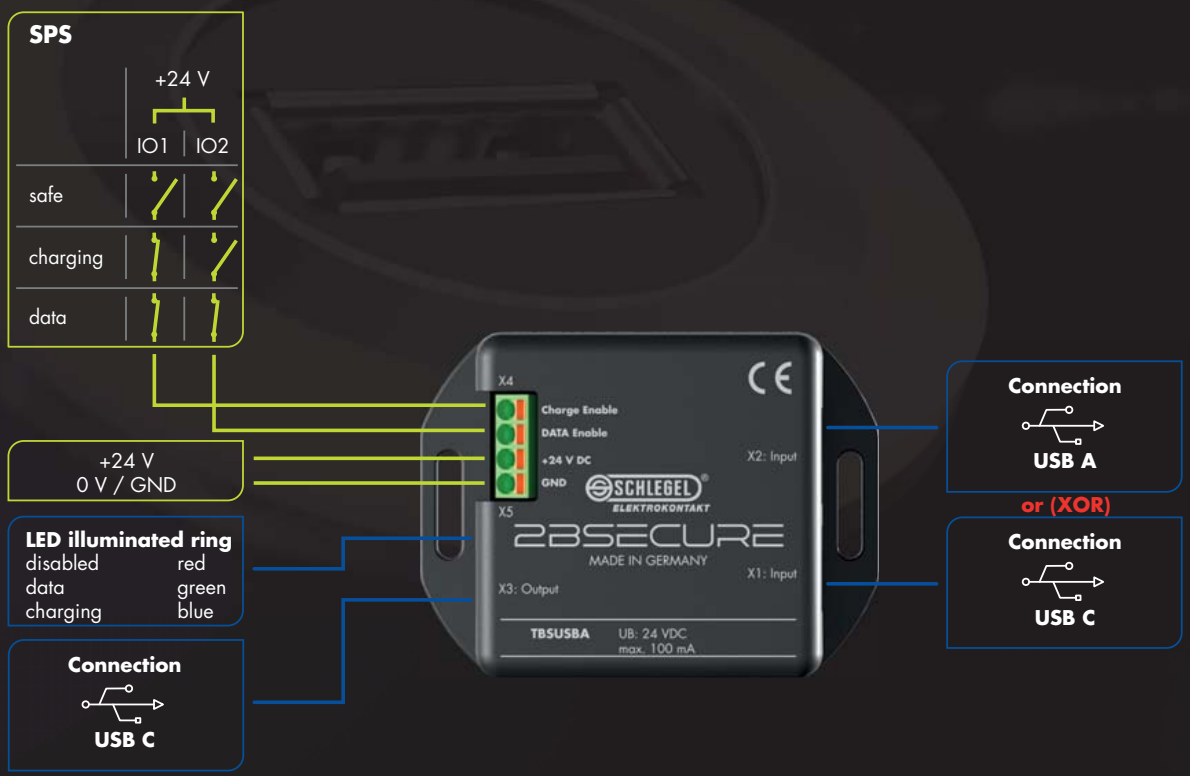
LED ring:	LR22K_24RGB_619 disabled = red data enabled = green charging enabled = blue
Cable:	VK_MLX4_MLX4

Application examples

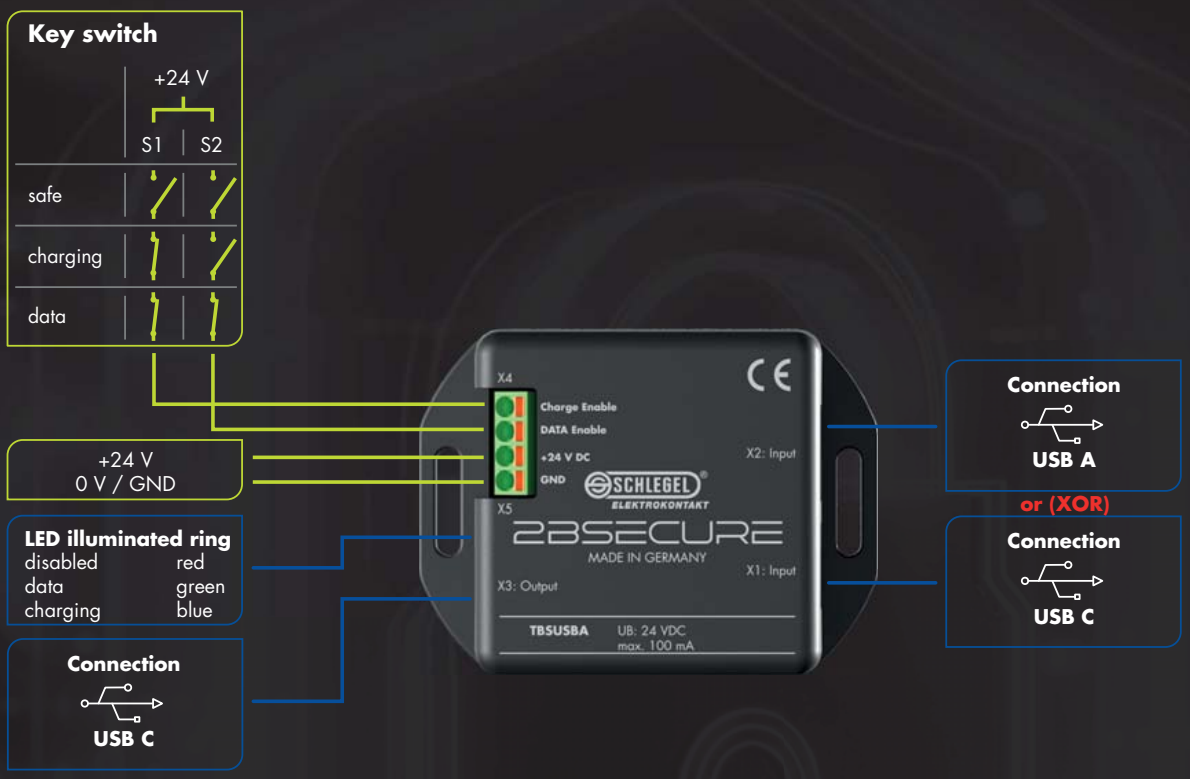
2BSecure-USB with RFID



2BSecure-USB with PLC

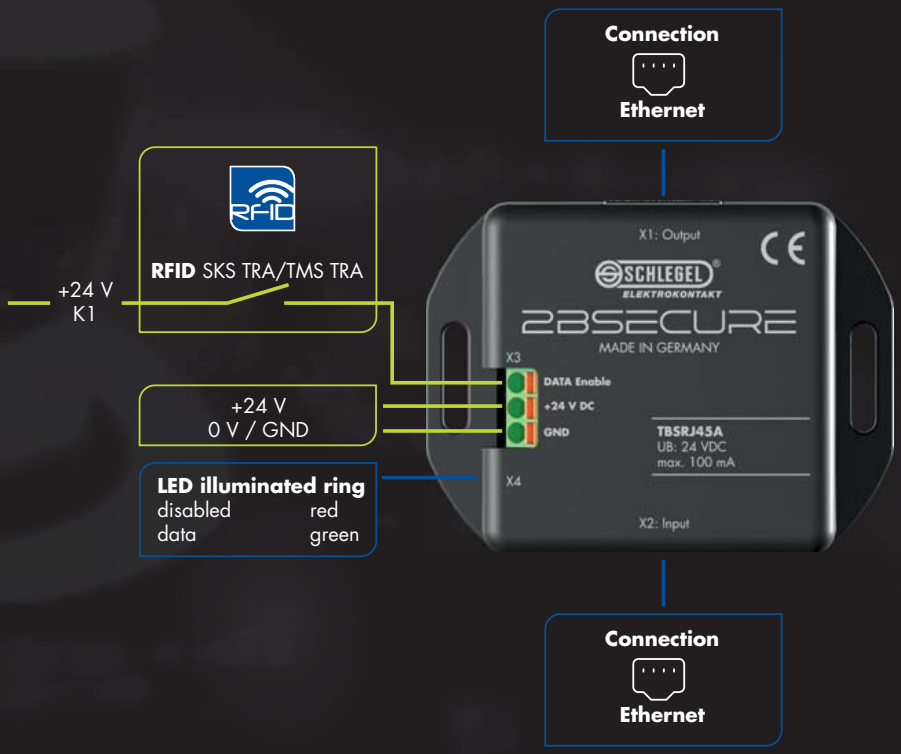


2BSecure-USB with key switch

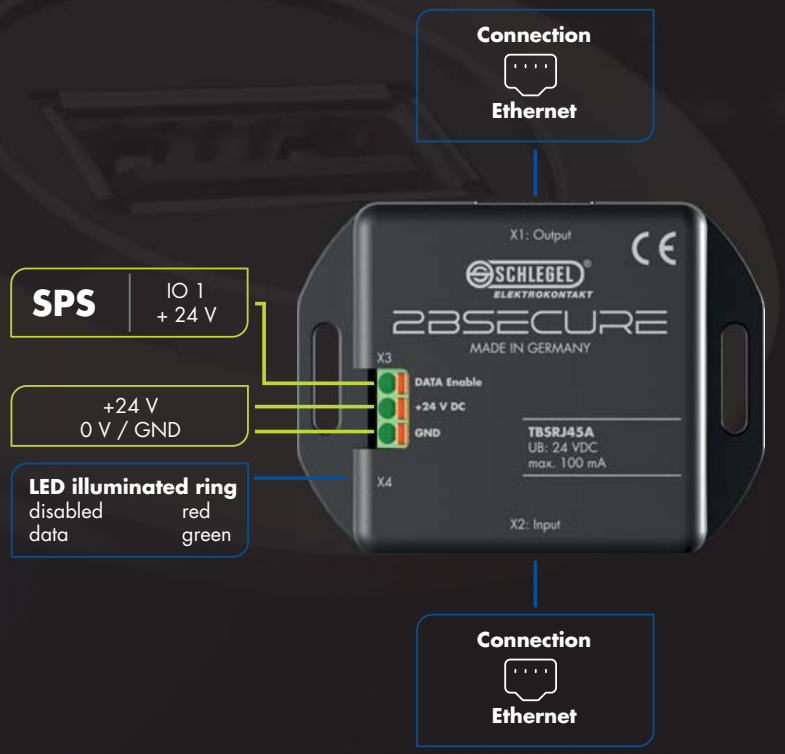


Application examples

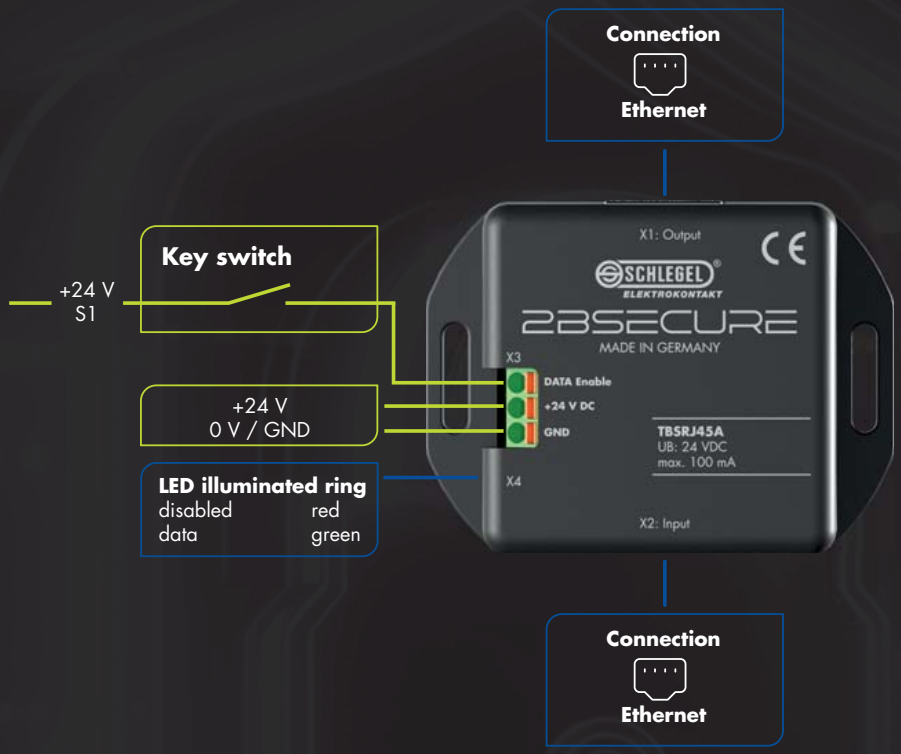
2BSecure-RJ45 with RFID



2BSecure-RJ45 with PLC



2BSecure-RJ45 with key switch



All information subject to change and without any claim to completeness. Photos are exemplary.

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