

Datasheet

→ TBSUSBA

05/23/2025



Technical data

Component for protecting USB interfaces

Type	TBSUSBA
Series	Accessories
Rubric	Accessories command devices
Approvals	CE



→ General data

Dimensions	66.5 x 50 x 20 mm
Operating temperature	-25 °C ... 60 °C
Colour	Charcoal
Storage temperature	-25 °C ... 80 °C
Material	ABS
Degree of protection front	IP20
Specification	USB 2.1

→ General note

Installation location

- Control cabinet or closed housing.
- Must only be accessible to service personnel.

Function description		
Standard	Charge Enable	Off
	DATA Enable	Off
	Enable	None
	Luminous ring color	Red
Charging	Charge Enable	On (+24 V DC)
	DATA Enable	Off
	Enable	USB-Charging function
	Luminous ring color	Blue
Data	Charge Enable	On (+24 V DC)
	DATA Enable	On (+24 V DC)
	Enable	USB-Data transfer
	Luminous ring color	Green

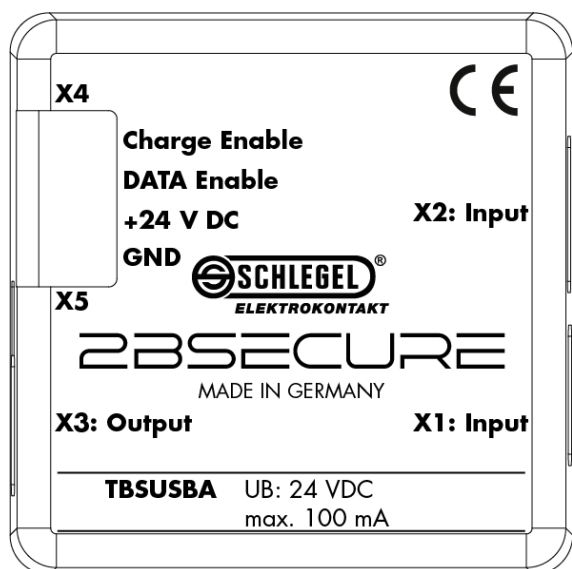
→ Electrical data

<i>Stripping length</i>	8 mm
<i>Number of outputs</i>	1
<i>Number of inputs</i>	2
<i>Outputs</i>	USB-C
<i>Inputs</i>	USB-A, USB-C
<i>Total current consumption</i>	30 mA 80 mA with LED ring
<i>Rated voltage</i>	24 V DC ±10% from a PELV/SELV supply 5 V USB

→ Electrical note

- The connection cable to X4 must not be longer than 30 meters.
- Output X5 is not short-circuit proof.

Connection identifier	Connection
X1	USB-C input
X2	USB-A Input
X3	USB-C output
X4	Connection terminal
X4-1	Charge Enable (control line)
X4-2	DATA Enable (control line)
X4-3	+24 V DC
X4-4	GND
X5	Luminous ring (Molex 52048-0410)
X5-1	GND
X5-2	+24 V red
X5-3	+24 V green
X5-4	+24 V blue



→ Mechanical data

Connection

0.2 mm² ... 1.5 mm² single-core/multi-core
 0.25 mm² ... 0.75 mm² multi-core with ferrule without plastic sleeve
 0.25 mm² ... 0.75 mm² multi-core with wire end ferrule with plastic sleeve
 16 AWG ... 24 AWG

Mounting position

Any

→ Mechanical note

- Size M3 screws are required to install 2BSecure

Technical drawings

→ Dimensional drawing

