EB1A

USB output module with one relay output

| Compact size | Easy integration | Unlimited switching cycles |

Flexible, compact output

With the USB output module EB1A, an EE 980 control desk can easily be expanded with a relay output (normally open contact) by simply connecting the EB1A to an available USB port of the station. As a result, a floating, galvanically-isolated output contact is available immediately – e.g. for use with a door opener. The USB output module can then comfortably be configured via the station's web interface.

Thanks to latest PhotoMOS technology, the EB1A has a very long service life. In contrast to an electromechanical design, this relay output does not age – no matter how many switching cycles it has to handle. That is why the USB output module is also recommended for use with permanent-blinking lights. This high flexibility and the ease of integration make the EB1A a cost-efficient solution wherever an output to switch loads is needed.

Features and highlights

– Cost-efficient possibility to expand an EE 980 control desk with a relay output
– Unlimited make-and-break cycles thanks to PhotoMOS technology
– Easy to integrate in an existing system
– Floating, galvanically-isolated relay output (normally open contact)
– Relay output can flexibly be loaded with direct or alternating current

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EB1A
Technical specifications

Technical data

IP rating:	IP20 (acc. EN 60529)
Connection:	USB 2.0 (Type A) max. 20 mA at 5 V
Relay output:	2-pin spring terminal (normally open contact) max. operation current: 1 A (up to 55 °C/131 °F; from 55 °C/131 °F, the max. operation current is reduced by 0.1 A per 10 °C) max. operation voltage: 20 VAC/30 VDC insulation voltage: 500 VAC
Cabling:	stripping length: 6 mm conductor cross-section solid: min. 0.14 mm², max. 0.5 mm² conductor cross-section flexible: min. 0.2 mm², max. 0.5 mm² conductor cross-section flexible, with ferrule and without plastic sleeve: min. 0.25 mm², max. 0.5 mm² wire diameter: min. AWG 26, max. AWG 20
Operating temperature range:	–40 °C to +70 °C (–40 °F to +158 °F)
Storage temperature range:	–40 °C to +70 °C (–40 °F to +158 °F)
Relative humidity:	up to 90%, not condensing
Weight incl. package:	23 g (0.05 lbs)

Extent of supply

– USB output module
– Short reference

System requirements

– EE 980 (firmware version min. 1.4)

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EB1A
Installation instructions

Mounting instructions

- This device shall be installed or replaced by trained and qualified personnel only.
- Do not place the device in areas where it may become wet or damp, and avoid dusty, humid and high temperature environments.
- All connected circuits shall fulfil the requirements for Safety Extra Low Voltage (SELV) and Limited Power Source (LPS) according to IEC/EN 60950-1.
- Before using the device, ensure all cables are connected correctly and not damaged.
- Do not make any unauthorised modifications to the device.

Dimensions

Measuring units in mm (in), not to scale!

44.5 (17.52)
32 (12.6)
19 (7.48)
10 (3.94)
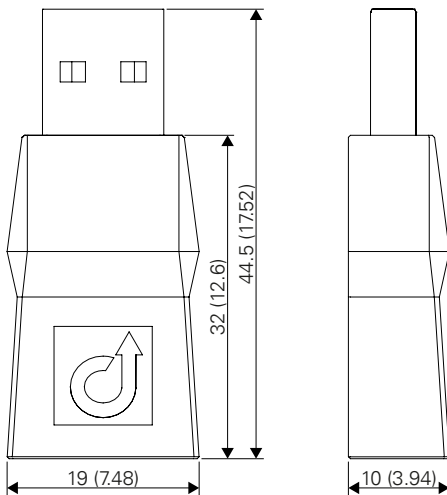
Overload

The EB1A does not have any protection against overload. For this reason, it is recommended to include an external overvoltage protection into the load circuit (especially for inductive loads).

Example 1:
AC power supply

Example 2:
DC power supply
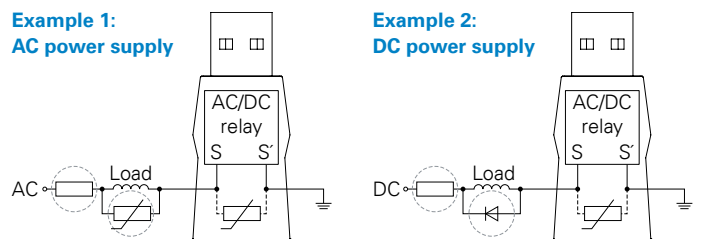
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COMMEND products are developed and manufactured by Commend International in Salzburg, Austria.

The development and manufacturing processes are certified in accordance with **EN ISO 9001:2015**.

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