

ABB i-bus® EIB

## Electronic relay ER/U 1.1 for individual room temperature control

Intelligent Installation Systems



ABB STOTZ-KONTAKT



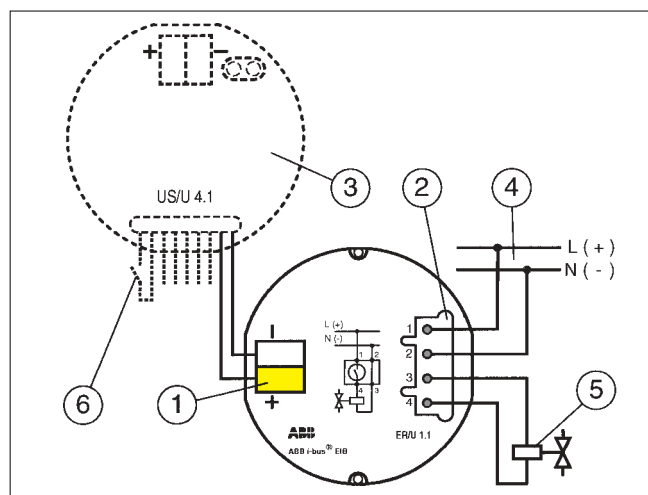
# Electronic relay ER/U 1.1 for individual room temperature control

In combination with the 4-fold universal interface (US/U 4.1), the device serves to control warm water heating systems in individual rooms and is inserted in a 60 mm, flush-mounted combined wall and joint box.

The electronic relay is controlled by an output of the universal interface and is dependent on telegrams from a room thermostat. The thermal valve drive of the radiator valve is switched by the semiconductor output both noise-free and with a low rate of wear.

The device is connected to the universal interface via a two-core cable and a white/yellow connecting terminal with a maximum cable length of 10 m. The operating voltage for the thermal valve drive of the radiator valve is supplied as two-pole via the device with a clip-on screw terminal.

## Circuit diagram:



The input of the electronic relay ① is linked with an output of the universal interface US/U 4.1 ③. The operating voltage ④ and the thermal valve drive ⑤ of the radiator valve are connected via a clip-on screw terminal. The room thermostat and the universal interface are assigned parameters using the ETS program (EIBA Tool Software). The room thermostat sends telegrams to the US/U 4.1 via the ABB i-bus® EIB. The ER/U 1.1 controls the thermal valve drives via its semiconductor output. Using an unassigned input of the US/U 4.1, it is possible to scan a window contact ⑥ and to switch the radiator to frost protection when the window is open via the ABB i-bus® EIB.

## Technical data:

Type of contact	Semiconductor
Operating voltage	24 V ... 250 V AC/DC
Nominal voltage	0.5 A, resistive load
Inrush current	max. 1.2 A, 1 min.
Type of protection	IP 20 in accordance with EN 60 529
Operating temperature range	- 5°C to + 45°C

### Connections

4-fold universal interface	Plug for connecting terminal white/yellow for solid conductors 0.6–0.8 mm Ø
Operating voltage and thermal valve drive	Clip-on screw terminal Wire range 0.2-2.5 mm <sup>2</sup> Both terminals are supplied

### Mounting

### Dimensions

Weight	0.05 kg
--------	---------

- Suitable for all conventional thermal valve drives
- Also suitable for thermal valve drives with higher inrush currents
- Switches power supply of 24 V ... 230 V AC/DC
- Device operates noise-free and with a low rate of wear
- Design enables a window contact to be scanned

## Selection table

Description	Ordering info. Short code	Product code	bbn 4016779 EAN	Price group	Price 1 Pc. [ DM ]	Weight 1 Pc. [ kg ]	Package [ Pc. ]
Electronic relay	<b>ER/U 1.1</b>	GH Q631 0044 R0111	<b>49725 1</b>	26		0.050	1



## ABB STOTZ-KONTAKT GmbH

Postfach 10 16 80  
D-69006 Heidelberg  
Telefon (062 21) 7 01-5 43  
Telefax (062 21) 7 01-7 24  
www.abb-stotz-kontakt.de