

Product information combined device with binary input / output, single BRE2-EB

Safety instructions

General safety regulations

Attention! Mounting, installation, commissioning and repair of electronic devices have to be carried out only by qualified electricians. The standards for the prevention of accidents must be observed.

When working in systems with mains connection 230 V, the safety regulations according to DIN VDE 0100 must be observed.

When installing TCS:BUS® systems, the general safety regulations for telecommunication systems according to VDE 0800 must be observed. Inter alia:

- · separated conduit of heavy and low current lines,
- minimum distance of 10 cm in case of common conduit,
- use of separators between heavy and low current lines within shared cable ducts,
- use of standard communication lines, e.g. J-Y (St) Y with 0.8 mm diameter,
- existing lines (modernisation) with deviating cross-sections can be used in compliance with the loop resistance.

Attention!

 The ingress of liquids or electronically conductive parts can cause short-circuits, fire or an electronic shock. Thus, provide water or other liquids from entering the device. Further provide electronically conductive parts from entering the device.

Installation – protective measures

- Outside the device, an easy accessible separator to disconnect the power supply must be provided.
- An overcurrent protective device must be installed upstream.
- The device must be installed in such way, that the user has no direct access to the mains connection terminal after the installation.
- With suitable measures to protect against lightning, it has to be ensured that a voltage of each 32 V DC is not exceeded at the TCS:BUS wires a, b and P.
- The device corresponds to the overvoltage category II.

Device overview

Technical data

supply voltage: $+24 \text{ V} \pm 8 \text{ % (TCS:BUS)}$

power supply and control unit)

housing: built-in housing

dimension (in mm): 52 x 52 x 23

weight: 32 g

permitted operating temp.: -20 °C ... +50 °C

input current (binary input): 2.5 mA

input current (2-wire): I(a) = 1.5 mA without load input current (3-wire): I(a) = 0.4 mA, I(P) = 2.8 mA

without load

max. input current

(3-wire): I(Pmax) = 4.4 mA

current via input contact: 2.5 mA

min. necessary duration

at the input: 100 ms

relay output, two-way contact:

tact: 230 V, 50 - 60 Hz / 2 A

Mains fuse for relay output: 2 A necessary!

Intended use

The BRE2-EB is suitable to execute switching and detection functions in TCS:BUS systems. To be built-in into flush-mounted sockets.

Suitable for: 3-wire connection (a, b and P)

2-wire connection with max. of 3 pieces BRE2-EB within the TCS:BUS sys-

tem

Short description

Basic functions

mode

output (potential- free)	for switching functions, to trigger the switch time by pressing: bell buttons of any front-door station, floor push-button / door release button at any indoor station activates the opening or closing contact when triggering a BUS action (programmable) can be reset with further BUS actions or after an adjustable period has expired
input	to trigger control functions distinguishes opening and closing (sends different TCS:BUS proto- cols, programmable) connection of a potential-free switch necessary

Programming options

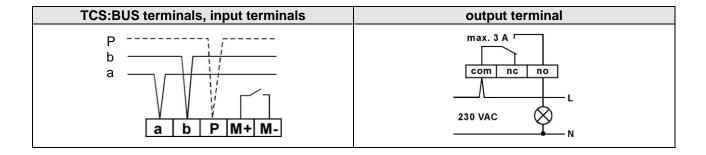
manually	additional options with PC / configo™
Switch time of the output: 0.5 to 128 s	Switch time of the output:
factory setting 1s	up to 30 min or unlimited
	pull-in delay up to 30 min
Switching functions of the output:	Switching functions of the output:
 calling the device's serial number 	start of a voice connection at the front-door station
 floor call, front-door door call and internal 	reset at the end of a voice connection
call to the serial number	second serial number
 door release with serial number, 	control functions and front-door calls of 10 further serial
start of a voice connection and	numbers
control function of a serial number	switch ON / OFF function, switch ON / OVER function
	linkage of several relay switch functions
Function of the input:	setting a programming lock
as closing contact to create any	Function of the input:
TCS:BUS protocol	as opener to create any TCS:BUS protocol
	open the device's output

Connecting the lines

Connection lines per terminal

TCS:BUS, input terminals: 0.12 ... 0.5 mm² (diameter: 0.4 ... 0.8 mm) possible output terminals: 0.5 ... 1.5 mm² (diameter: 0.8 ... 1.4 mm) possible Connect the lines according to the following connection schemata

! When using 3-wire technique, remove the jumper (see device overview)!



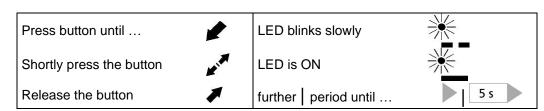
Important note for commissioning

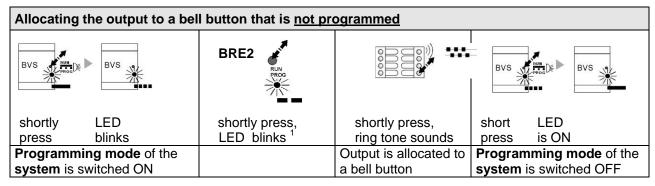
During the transport, the relay can be exposed to impacts. Thus, the contact can be moved into working position (K1-K2 closed).

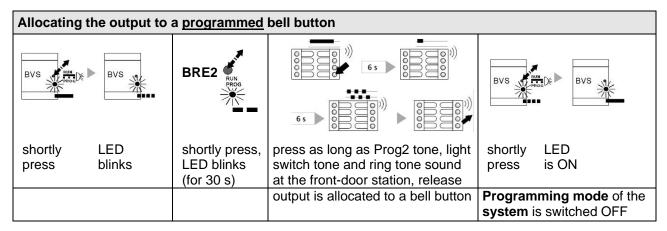
When starting the commissioning, connect the TCS:BUS to the relay and the TCS:BUS to the power supply to move the contact into rest position.

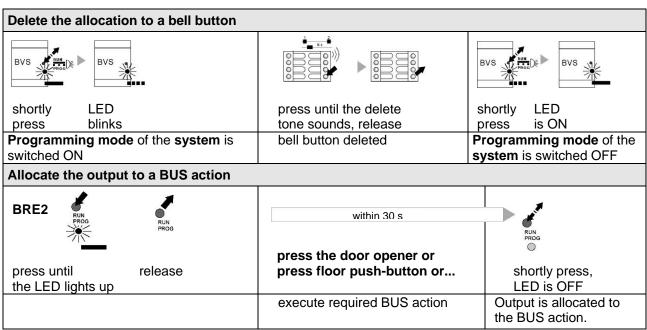
Manual programming

Legend

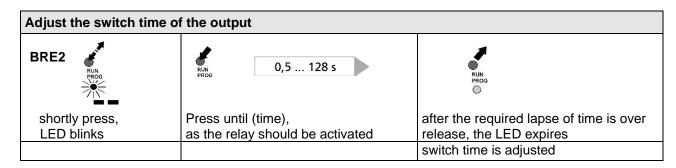


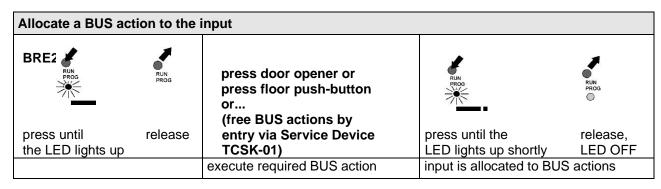


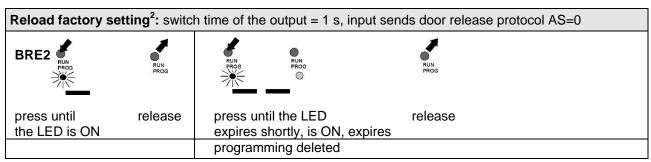




¹⁾ The BRE2 returns into the operating mode after 30 s, the LED expires. If you want to cancel the programming at this point, switch off the programming mode of the system at the BVS.







²) Factory setting is identical to delivery state.

Conformity

Declarations of conformity are available under www.tcsag.de, Downloads, trade information.

Information on disposal



The adjoining symbol shows, that the device has to be disposed separately from domestic waste. The material used are recycable. Please do help protecting our environment and dispose the device via a collection point for electronic scrap.



Dispose the parts of the packaging in collecting tanks for cardboard and paper resp. plastics.

Warranty

We offer a **simplified processing** in case of warranty for electricians.

- Please note our **conditions of sale and delivery**, download from www.tcsag.de, downloads, trade information.
- Please contact the TCS HOTLINE.

TCS TürControlSysteme AG, TCS Hotline Germany: hotline@tcsag.de FAX: +49 (0) 41 94/ 9 88 129

Service

Please send your questions and inquiries to hotline@tcsag.de

Headquarters

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