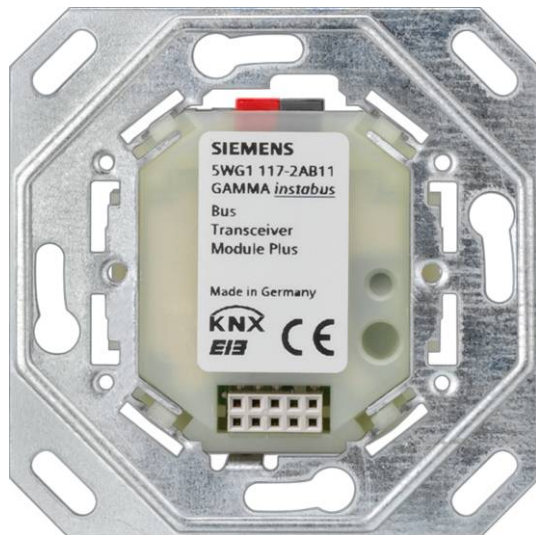


Bus Transceiver Module (BTM) Plus UP117/11

5WG1 117-2AB11

## Product and Applications Description



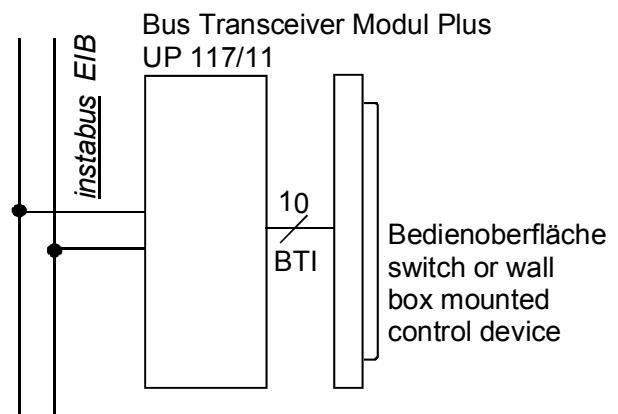
The Bus Transceiver Module UP 117/11 provides the connection to the bus for DELTA switches and wall box mounted control devices with Bus Transceiver Interface (BTI).

The Bus Transceiver Module Plus UP 117/11 is used for switches and wall box mounted control devices with higher power consumption. It comes with a mounting frame for DIN/VDE type wall boxes.

## Application Programs

The Bus Transceiver Module does not require an application program.

## Example of Operation



## Installation Instructions

- The device may be used for permanent interior installations in dry locations within box mounts.



### WARNING

- The device must be mounted and commissioned by an authorised electrician.
- The device must not be mounted in wall boxes together with 230 V devices and/or 230 V cables.
- The prevailing safety rules must be heeded.
- The device must not be opened.
- For planning and construction of electrical installations, the relevant guidelines, regulations and standards of the respective country are to be considered.

### Technical Specifications

#### Power supply (via bus)

- rated voltage: DC 24 V
- operating voltage: min. DC 21 V , max. DC 30 V

#### Output voltage and current via BTI

- DC 5V, 10mA
- DC 20V, 25mA

#### Operator elements

The device has no operator elements.

#### Display elements

The device has no display elements.

#### Connections

- bus line: screwless bus connection block (red-black) 0.6...0.8 mm Ø single core remove approx. 5mm of isolation
- 10-pin socket (BTI): for connection of DELTA switches and wall box mounted control devices with BTI plug

#### Physical specifications

- housing: plastic
- dimensions:
  - height x width: 45.5 x 44 mm
  - mounting depth: 15 mm
- weight: approx. 42 g
- installation: mounted with mounting frame on DIN/VDE type wall boxes, Ø 60 mm, 40 mm deep

#### Electrical safety

- degree of pollution (according to IEC 60664-1): 2
- protection (according to EN 60529): IP 20
- overvoltage class (according to IEC 60664-1): III
- bus: safety extra low voltage SELV DC 24 V
- the device complies with EN 50 090-2-2

#### Electromagnetic compatibility

complies with EN 50090-2-2

#### Environmental specifications

- climatic conditions: EN 50090-2-2
- ambient temperature operating: - 5 ... + 45 °C
- ambient temperature non-op.: - 25 ... + 70 °C
- relative humidity (non-condensing): 5 % to 93 %

#### Markings

EIB, KNX, CE

#### CE mark

complies with the EMC regulations (residential and functional buildings), and low voltage regulations

### Location and Function of the Display and Operator Elements

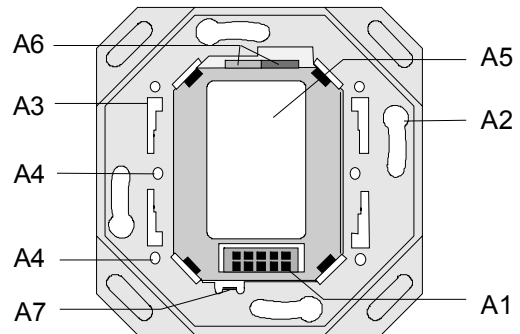


Figure 1: Location of the display and operator elements

- A1 Bus Transceiver Interface (BTI) socket for connecting an application unit with BTI plug
- A2 Slots for attaching the BTM to wall boxes
- A3 Slots for mounting application unit with guide and mounting clamps
- A4 Thread for mounting screws (for additional support, e.g. for securing the application unit against theft)
- A5 Type plate
- A6 Bus connection block for single core conductors: Ø 0.6 ... 0.8 mm
- A7 earthing plate

**Bus Transceiver Module (BTM) Plus UP117/11****5WG1 117-2AB11****Mounting and Wiring**General description

The connection to the bus line is established via bus connection block 193 (screwless plug-in terminals for single core conductors). The application unit is slipped onto the BTM via guide and mounting clamps and, depending on the device type, fastened with screws.

**Note**

The Bus Transceiver Module UP 117 must be mounted with the Bus Transceiver Interface (BTI) situated at the bottom (see Figure 2). Thus, the application unit will be oriented properly when slid onto the BTI. Use bus devices with mounting screws only to achieve a permanent stable contact at the BTI.

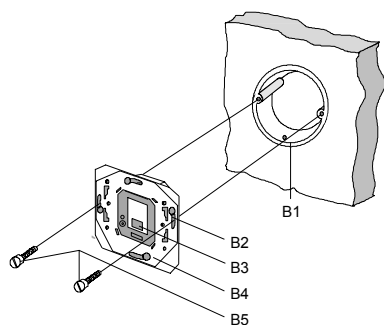


Figure 2

Mounting

- B1 wall box (60 mm Ø, according to DIN 49073)
- B2 mounting slots
- B3 Bus Transceiver Interface (BTI)
- B4 Bus Transceiver Module UP 117
- B5 mounting screws

Slipping off/on bus connection blocks (figure 3)

The bus connection block (C2) is situated on the back of the BTM (C1). It consists of two components (C2.1 and C2.2) with four terminal contacts each. Take care not to damage the two test sockets (C2.3) by accidentally connecting them to the bus cable or with the screw driver (e.g. when attempting to unplug the bus connection block).

Slipping off bus connection blocks (figure 3)

- Carefully put the screw driver to the wire inserting slit of the bus connection block's grey component (C2.2) and
- pull the bus connection block (C2) from the bus coupling unit UP 114/02 (C1).

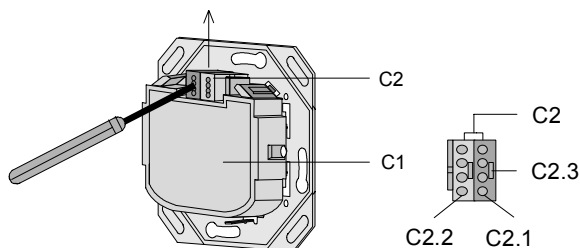


Figure 3

**Note**

Don't try to remove the bus connection block from the bottom side. There is a risk of shorting-out the device!

Slipping on bus connection blocks (figure 3)

- Slip the bus connection block (C2) onto the guide slot of the BTM (C1) and press the bus connection block (C2) down to the stop.

Connecting bus cables (figure 4)

- The bus connection block (D1) can be used with single core conductors Ø 0,6 ... 0,8 mm.
- Remove approx. 5 mm of insulation from the conductor (D2) and plug it into the bus connection block (D1) (red = +, grey = -).

Disconnecting bus cables (figure 4)

- Unplug the bus connection block (D1) and remove the bus cable conductor (D2) while simultaneously wiggling it.

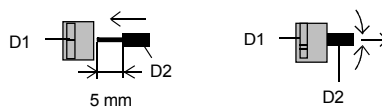
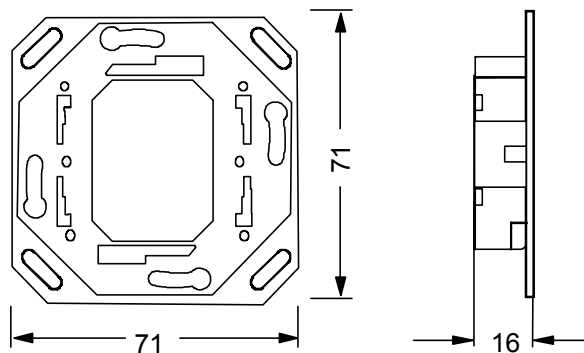


Figure 4

### Dimension Diagram

Dimensions in mm



### Application programs

#### General Notes

- The operating instructions must be handed over to the client.
- Any faulty device should be returned to the local Siemens office.
- If you have further questions concerning the product please contact our technical support.

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