73 - 1 - 5831
22013

ABB i-bus® EIB
Series/blind actuator
6152 EB - 101 - 500

for Installation

Operating instructions

only for authorized, skilled electricians with EIB training

Important instructions

Attention

It is absolutely essential that the EIB bus is installed by an authorized electrician. Laying and connection of bus line and applications devices must be effected in conformity with valid regulations according to DIN - VDE and the EIB manual of the ZVEI / ZVEH.

Connect the touch contact input to the same phase as the power supply of the device.

For wiring of the actuator 6152 EB-101, the specifications of the lamp / EVG manufacturer with regard to current at make and power factor have to be observed. In some cases it may be necessary to install a making current limiter (e. g. 6515).

Notes

If the physical address has not yet been assigned, the programming key (Fig. 2, pos. 5) should still be accessible. If necessary, please install the lamp cover lateron. The manufacturer database of ABB is continuously updated. It stores the latest types of applications and their related descriptions. If this database is not available to you, please send for a copy.

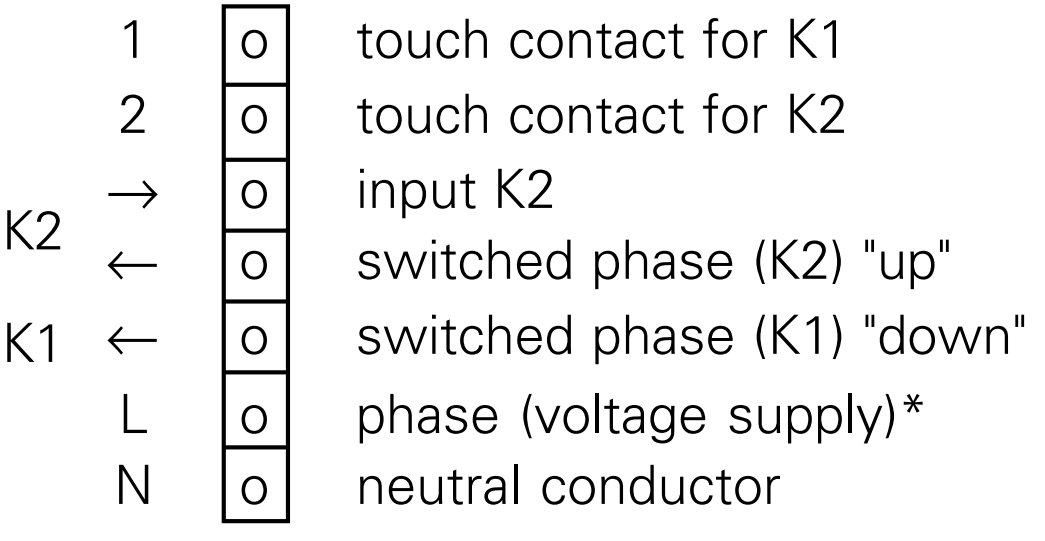
Technical data / Connection

EIB connection

Nominal voltage:	24 V
Current consumption:	< 10 mA

Switching connection

Nominal voltage:	230 V ~ , 50 Hz
Switching current:	2 x 10 A, cos φ 0,6
Touch contact inputs:	230 V, 50 Hz
Line length of the touch contact inputs:	je max. 100 m (unlighted)
Operating temperature:	-5 to +45 °C
Protection type:	IP 20

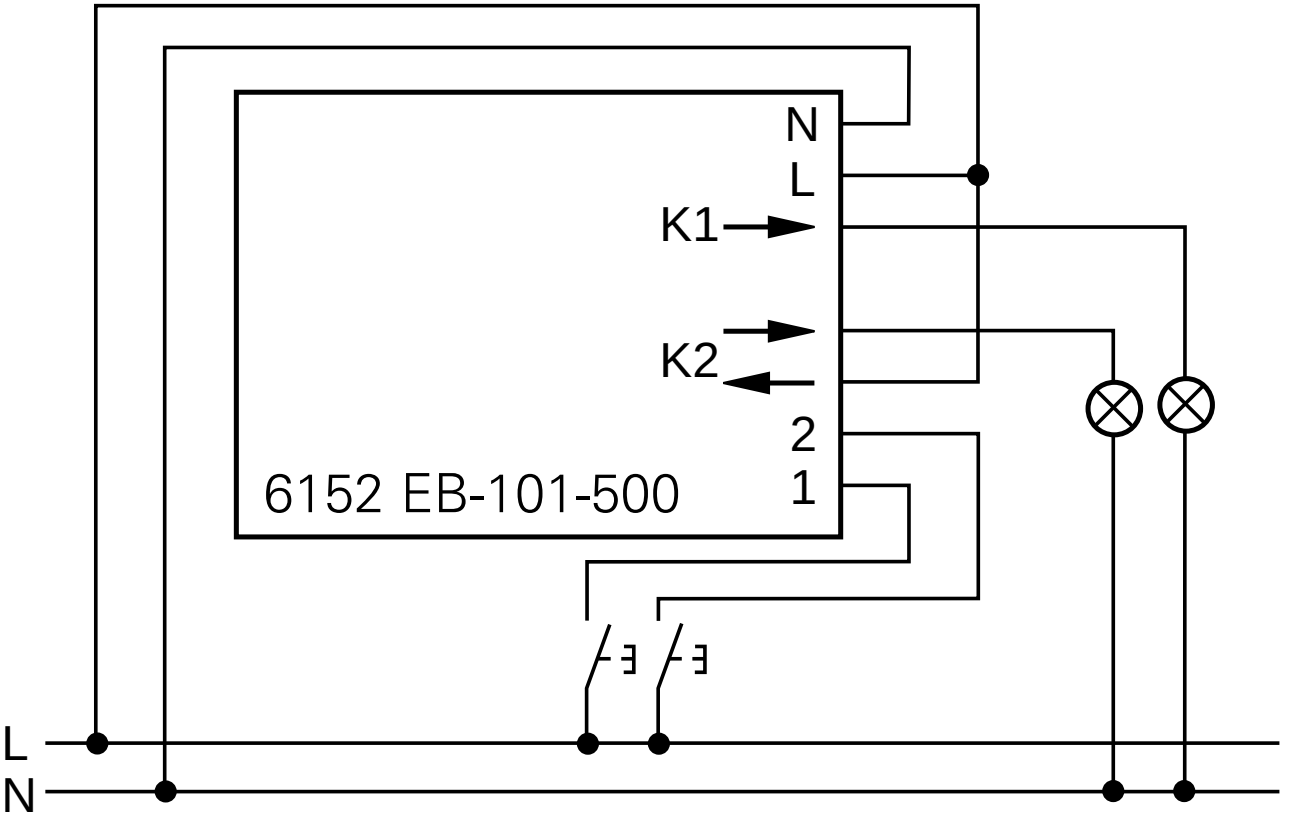


* Note: relay contact K1 is supplied via L (phase).

Installation

Switch off supply voltage !
Remove both outer caps from the device. The device is fixed in the lamps by means of screws put through the long holes (cf. Fig. 2 below, positions 1; 7).

Fig. 1



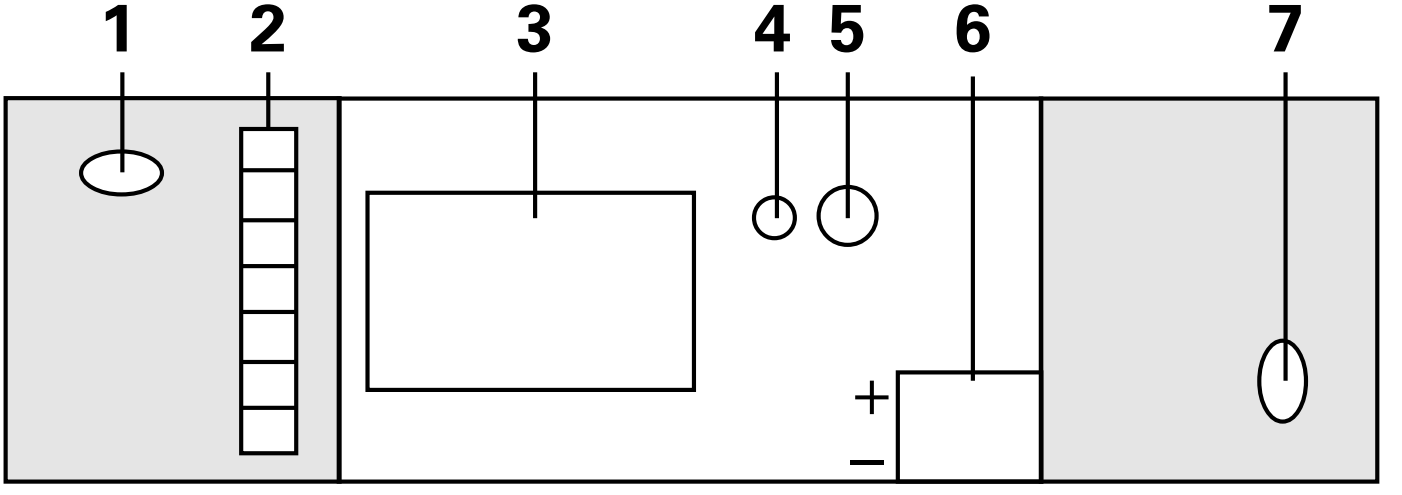
Note
Load and touch contact line must be laid separately.

Installation

The connection of supply voltage and control line is effected at the 7-pin terminal block (pos. 2). Please observe the connection information given in the "technical data" section.

The connection to the EIB bus is made by means of a 2-pin bus terminal (item no. 6183) which is plugged into the entrance (pos. 6). Please make sure that the polarity of terminals is correct (red = +, grey = -).

Fig. 2



Adapt bus coupling process

Assign physical address

- Connect a PC equipped with the EIBA software (ETS) to the EIB bus line via an EIB-RS 232 interface.
- Press the programming key (pos. 5) at the actuator: the red programming LED (pos. 4) will become illuminated.
- After the physical address has been programmed, the red LED will go out.
- Write the number of the physical address on the device using a smudge-proof pencil (pos. 3).

Assign group address(es)

- Group addresses are assigned via a PC in connection with the ETS software.

Adapt bus coupling process

Select application

Open the device window and choose the desired application version. At present, there are three versions available.

Alternative application:

Version 1.1

This device offers the following functions:

- Switching of electric consumers on-site via several conventional touch contacts (e. g. 2020 US-205 without lighting) or EIB sensors (e. g. 6116)
- Selection of the preferred position in case of bus voltage failure
- Invertability of outputs (separately selectable for each channel)
- Switch-off delay (separately selectable for each channel)
- AND / OR linking of two objects for one channel each

Adapt bus coupling process

You may differentiate this version of the actuator 6152 EB-101 by using the "parameters" option of your ETS software.

Per channel:

- preferred position
  - relay contact closes/opens in case of bus voltage failure
- inverted / switch-on or switch-off delay, resp.
  - relay contact closes / open upon an „ON telegram“
- Switch-off delay (staircase lighting function)
  - relay contact switches off after an ON telegram delayed by the time x (timing see below)
- Linking
  AND / OR linking of:
  - object 0 and 2 corresponds to channel 1
  - object 1 and 3 corresponds to channel 2
- Timing of switch-off delay
  For each channel, the following may be defined:
  - the time in steps of 130 ms to 1.2 hours
  - the basis (multiplier) of 2 - 127

Adapt bus coupling process

Version 2.1

The device offers the following possibilities:

- UP / DOWN of the blind and lamella adjustment
  - via conventional blind touch contacts (e. g. 2020/ 4US)
  - or via EIB UP sensor 6118-xx or 6131-xx, resp.
- EMERGENCY - UP and blocking of any motion in case of storm.

You may differentiate this version of the actuator 6152 EB-101 by using the "parameters" option of your ETS software:

- UP / DOWN
  - the time for a complete run of the blind (movetime in minutes)
- Lamella adjustment
  - the time for the pick-up of the relay contact at a step telegram in seconds (steptime).