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Eltako ELECTRONICS

Pushbutton bus coupler FTS61BTKL

Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!

Temperature at mounting location:
-20°C up to +50°C.
Storage temperature: -25°C up to +70°C.
Relative humidity:
annual average value <75%.

Bus pushbutton coupler FTS61BTKL for 4 conventional pushbuttons with integrated 24 V LEDs for connection to FTS14TG pushbutton gateways by 2-wire pushbutton bus. Only 0.2 watt standby loss.

For installation. 45 mm long, 55 mm wide, 18 mm deep.

Up to 30 bus pushbuttons and/or bus pushbutton couplers FTS61BTKL devices can be connected to the BP and BN terminals of a pushbutton gateway FTS14TG. The permitted total line length is 200 m. The RLC device enclosed with the FTS14TG must also be connected to the terminals BP and BN on the bus switch or pushbutton bus coupler furthest away.

A voltage of 29 V DC is supplied to the connected FTS61BTKL over a 2-wire pushbutton bus which is also used for data transfer.

Please use only conventional bus or telephone lines.

Up to four conventional pushbuttons T1-T4 can be connected to the 15 cm long connecting cables. Each opposite pole is T0. The connecting cables can be extended up to 2 m. With the 24 V LEDs integrated in the pushbuttons, confirmation telegrams of actuators are displayed if the IDs of the actuators were registered into the ID table of the FTS14TG with PCT14.

Caution: Do not apply any voltage.

The pairs T1/T3 and T2/T4 can be defined as direction pushbuttons.

Connect the bus to BP and BN. Make sure the polarity is correct.

The four conventional pushbuttons are connected to the four red connection cables T1-T4 and the common blue T0. The corresponding LEDs are connected to the four yellow connection cables and the common blue GND.

The pushbutton telegrams of the FTS61BTKL are also sent to the Eltako wireless network with a FTS14FA in the Eltako RS485 bus.

Pushbutton T1 sends 0x30

Pushbutton T2 sends 0x70

Pushbutton T3 sends 0x10

Pushbutton T4 sends 0x50

Operating mode rotary switches of the FTS14TG:

Pos. 2, 3, 4: Every pushbutton of the FTS61BTKL has the same ID.

Recommended setting for ES functions with direction pushbutton.

Pos. 5, 6, 7: Every pushbutton of the FTS61BTKL has a separate ID.

Prescribed setting for ER functions.

Issue device address for FTS61BTKL:

1. Connect the first FTS61BTKL to the BP and BN bus terminals.
   The LED on the FTS61BTKL lights up red.
2. Turn the rotary switch on the FTS14TG to Pos. 1.
   After the FTS14TG issues the address, its lower LED lights up green.
3. Turn the rotary switch on the FTS14TG to Pos. 2 to 7.
   The LED on the FTS61BTKL lights up green.
4. Only then connect the second FTS61BTKL and repeat the procedure from 2, etc.

A device address 0 (as-delivered state) can only be issued to one FTS61BTKL.

The address is always issued in ascending order 1-30.

When an FTS61BTKL is replaced and the rotary switch on the FTS14TG is turned to Pos. 1, the new FTS61BTKL automatically receives the same device address and the system runs as before without requiring further teach-in.

Clear device address of an FTS61BTKL:

1. Connect only one FTS61BTKL to the BP and BN bus terminals.
   The LED on the FTS61BTKL lights up green.
2. Turn the rotary switch on the FTS14TG to Pos. 9.

After the device is cleared, the lower LED on the FTS14TG lights up green and the LED on the FTS61BTKL lights up red.

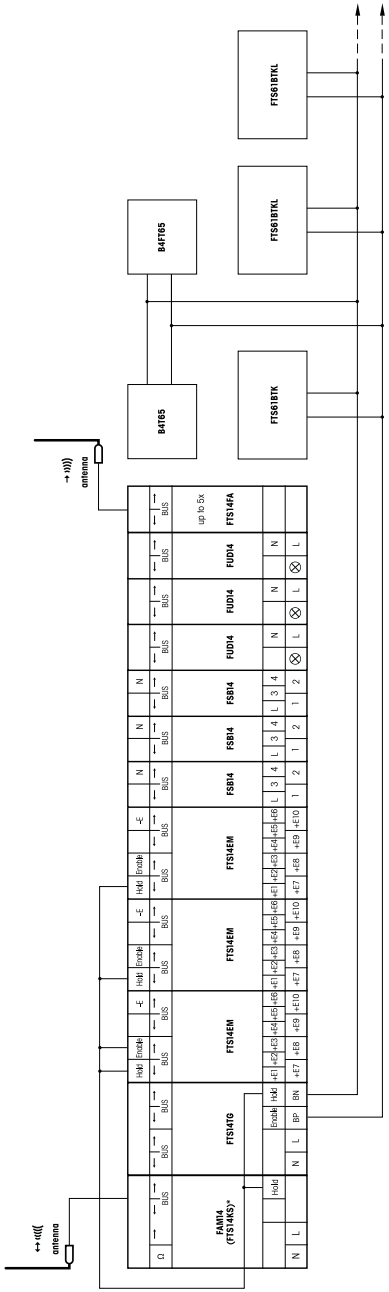
LED display:

LED off: There is no power supply over the 2-wire bus.

LED lights up red: Power is supplied over the 2-wire bus. The FTS61BTKL has no device address yet or the bus is defective.

LED lights up green: FTS61BTKL has a device address and is ready to operate.

Typical connection



* alternatively FTS14KS without bidirectional wireless

The second terminating resistor supplied with the FAM14 or FTS14KS must be plugged into the last bus user. Use the PCT14 PC tool to make additional actuator setting options for conventional pushbuttons. An FTS14TG pushbutton gateway can be connected decentrally to up to 30 B4T65, B4FT65 bus switches and FTS61BTK, FTS61BTKL pushbutton bus couplers each with 4 pushbutton inputs. A single 2-wire line supplies the pushbutton bus coupler with power and also transfers the pushbutton data. The user may select any topology for the 2-wire connection.

Must be kept for later use!

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20/2017 Subject to change without notice.