

e-Bus Coupling KNX

Bus coupling with KNX protocol for **e-Touch** touch switches
 Product reference: BC.090001-001

e-Bus Coupling KNX is a bus coupling that facilitates the connection of any touch switch of the **e-Touch Flexi** or **e-Touch Panel** family to the KNX bus.
 The bus coupling is configured with the ETS application (version 5.0 or later).

Product Description

The **e-Bus Coupling KNX** is a communication interface or frame that facilitates the connection of any **e-Touch Flexi** or **e-Touch Panel** touch switch to the KNX communications bus.

Each touch switch has its own layout of buttons and LEDs (for further information see the instructions sheet of each touch switch). The buttons are grouped into paired buttons and individual buttons. Paired buttons can be configured to become individual buttons. Both paired buttons and individual buttons can perform multiple functions, all of which are configurable with the ETS software.

Programming LED

The unit has a LED on the rear marked "PROG", which indicates whether the unit is in programming mode. When the unit is connected to the power supply or reset, the programming LED flashes.

Programming push-button

The unit has a push-button on the rear marked "PROG" to activate/deactivate the unit's programming mode.

Configuration of the unit in the KNX bus

Once the unit has been installed, it can be configured with the application available for the ETS programming tool. The ETS version to load the application of the unit must be at least 5.0.

It is essential to choose the same touch switch that is installed in the options; if the other touch switch is chosen, it will not work and the LEDs will enter the activation sequence that indicates wrong touch switch.

For further information about the configuration of the unit, consult the unit's manual and the instructions sheet of the chosen **e-Touch Flexi** or **e-Touch Panel** touch switch.

LED sequences in e-Touch Flexi or e-Touch Panel touch switch

Correct start:

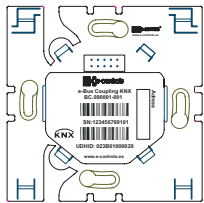
The LEDs of the touch switch activate in sequence from top left to bottom right (left to right and top to bottom).

Incorrect start:

The LEDs of the touch switch activate in sequence from bottom right to top left (right to left and bottom to top). The sequence repeats indefinitely until correctly configured.

Instructions Sheet

EN



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Product Description (continued)

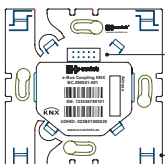
Clean mode:

The top-left LED of the touch switch flashes half second ON and half second OFF in this mode.

Programming mode activated by NFC:

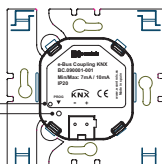
The top-left LED of the touch switch flashes 1 second ON and 1 second OFF in this mode, with a timeout of 10 minutes.

Front view

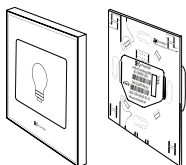


Touch switch connector
 Programming LED
 Programming push-button
 Touch switch attachment slots

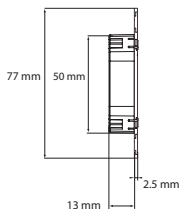
Rear view



Assembly



Side view



Product Installation

Pay close attention to the unit mounting instructions provided below.

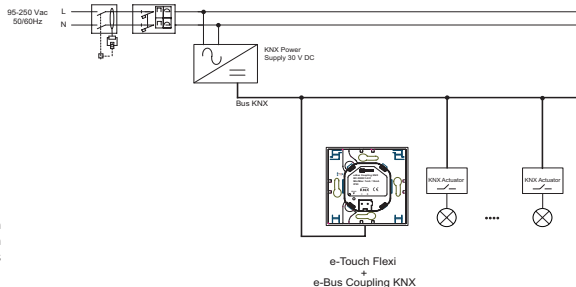
Important:

- For the **e-Bus Coupling KNX** frame to work, an **e-Touch Flexi** or **e-Touch Panel** touch switch must be connected to the unit.
- Follow the KNX standard instructions for the installation of the wiring in the building.

Unit mounting steps:

- Disconnect the power supply from the KNX bus to which the frame is to be connected.
- Connect the KNX bus to the marked unit.
- Attach the unit to junction box with two screws. To connect an e-Touch Panel touch switch, screw in the extender that comes with the touch switch, inserting the two upper slots of the extender into the frame so that the touch switch can be attached on all four sides.
- Mount the plastic frame on the touch switch, making sure that the air slots are at the bottom and top left of the touch switch.

Installation drawing



(* Bus KNX: recommended cable: Belden 77906ELV)

Technical features

Supply Power	
Operating voltage	21 Vdc/31 Vdc (Bus KNX)
Rated current	6 - 18 mA
Communications	
Technology	KNX
Standard	ISO/IEC 14543
Interface	KNXTP1
Communication speed	9 Kbps

"PROG" Led signal

Functionality	PROG On/Off
Color	Red

"PROG" Pushbutton

Functionality	Switch on/off KNX programming mode
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Temperature values

Operating	0°C to +50°C (32°F to 104°F)
Storage	-20°C to +85°C (-4°F to +185°F)

Humidity (non-condensing)

Operating	10% to 90% RH at 50°C
Storage	95% RH at 50°C

Mechanical installation

Installation type	Flush mounting
Flush box	European universal
Recommended mounting height	1 m or 1,5 m (depending on eTouch model)

- Insert the e-Touch Flexi or e-Touch Panel touch switch into the openings of the front connector of the frame until the white clips of the switch line up with the slots of the frame and apply pressure until the frame touches the wall and is held in place by the touch switch.
- Connect the power supply to the KNX bus and verify that one of the blue LEDs on the front of the touch switch lights up within the first 25 seconds.
- Configure the unit in accordance with the steps indicated in the "Configuration" section.

Precautions:

- Disconnect the device from the power supply before mounting or moving the unit.
- Do not leave stripped wires or rolled-up wires near the unit.
- Do not connect the device with wet hands.
- Do not open or pierce the product.
- Keep the device and the wires away from humidity and dust.
- Clean the front of the device with a slightly damp cloth.

Mechanical features

Dimensions	77x77x36 mm
Weight	52 gr
Color (front)	White master ABS-1789/5%
Enclosure material	ABS
Cable section	KNX standard
Connection terminals	Push in type
Electrical safety	Class III
Protection degree	IP20 (EN 60529:1991)

CE Conformity

Mark	CE
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Applicable harmonized standards

Electrical safety	IEC 63044-3
Electromagnetic compatibility	IEC 63044-5-x
Environmental conditions	UNE-EN 50491-2

Product Reference

e-Bus Coupling KNX, for e-Touch Flexi and e-Touch Panel touch switches. BC.090001-001

The casing of this product is considered to be an industrial container and the receiver should be a professional. The manufacturer shall not be held liable for the incorrect use or installation of the product. Document subject to changes without prior notice.

