KNX RF/TP Coupler 670   EN

Bidirectional Gateway between KNX-RF and the KNX/EIB-Bus
Data sheet

Application

The KNX RF/TP Coupler 670 connects wireless KNX devices (KNX-RF) with the KNX bus (KNX TP). The communication mode is bidirectional and therefore supports acknowledgements. In addition the gateway is able to act as a radio transmitter.

The KNX RF/TP Coupler 670 comes with 24 channels. Each channel can be assigned to one of the following functions:

- Switch (+ Scene)
- Dim (+Scene)
- Blinds (+Scene)
- LED-display
- Temperature sensor

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Every channel, configured as a receiver, is able to forward the battery status of connected wireless devices to the KNX bus.

KNX/EIB learn mode
The EIB/KNX learn mode is activated
and deactivated using the button "Prog KNX". A red LED indicates that learn mode is active. The configuration is done using the ETS and must precede the learning of the wireless devices.

KNX-RF device lern mode
With a short keystroke of "Activ. / Add" you choose a channel. With a long keystroke you can connect a channel to a radio subscriber. The learn mode of the radio subscriber has to be activated too (see manual of the RF device).

With a brief stroke of the "Exit / Del" button, the learning process breaks off and goes into normal operation. With a long stroke you can clear the channel connection to the subscriber. For clearing a channel connection, the subscriber also has to be in lern mode (see manual of the RF device). The LCD shows the current channel number alternating with its configuration ("S" sensor, "A" actor)

Normal mode
The LCD shows the channel number on which a telegram is received or transmitted.

Technical data

Electrical safety
- Protection class (as per EN 60529): IP 20
- Safety extra low voltage SELV DC 24 V Compliant with EN 50090-2-2

EMC requirements
- Compliant with EN 301 489-1, EN 301 489-3, EN 61000-4-(2..6) and EN 55022

Radio Frequency Standards
- ETSI EN 300 220-1 and ETSI EN 300 220-2

Ambient conditions
- Ambient operating temp.: - 5 ... + 45 °C
- Storage temp.: - 25 ... + 70 °C
- Rel. humidity (not condedns.): 5 % … 93 %

Labeling
- KNX
- CE compliant with EMC requirements (residential and functional buildings)

Hardware data
- Housing: plastic, white
- On-wall mounting
- Dimensions: 85 x 85 x 37 mm
- Weight: approx. 70 g
- Fire load: approx. 1000 kJ

Power supply
- Powerd via bus
  Current consumption: approx. 8 mA

Connections
- KNX-Connection

Radio interface
- KNX-RF, ISM Band 868,3 MHz
- Range: 100m LOS

KNX

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