WAVERLEY

S3 Synchronised Solar Shading

JUNG KNX Radio Converter

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The KNX RF radio converter from JUNG is designed to connect your KNX system to any RF components. It is perfect for use in locations where you cannot install KNX cable, and yet enables you to add further functionality and intelligence to your system.

Intended Use

- Connection of KNX radio networks with cabled KNX lines
- Extension of the radio range in KNX radio networks (repeater operation, external power supply with 24 V AC/DC, e.g. ref.-no. NT 2415 REG VDC)
- Mounting in appliance box according to DIN 49073 in combination with a suitable cover.

Features

- Use as media coupler in the function of area or line coupler (depending on the physical address)
- Use as KNX RF repeater possible
- Filter settings and filter tables
- As of V01: KNX Data Secure compatible with ETS 5.7.3 or higher
- As of V02: use as segment coupler possible with ETS 6.0.5 or higher
- Influence on forwarding of group telegrams (routing) by filter function in coupler operation
- Support of the full address range (groups 0-31) for filter function
- Forwarding of group telegrams (TP > RF, RF > TP) parameterizable
- Forwarding of physically addressed telegrams (TP > RF, RF > TP) parameterizable
- Forwarding of broadcast telegrams (TP > RF, RF > TP) parameterizable
- Telegram repetitions in case of transmission errors for group, broadcast and physically addressed telegrams can be set on the TP side
- Telegram confirmation for group and physically addressed telegrams can be separately configured on the TP side
- Configuration lock can be set (programming only via TP or RF)
- Status LED
- Conversion and generation of RF system broadcast telegrams
- Support of long frames
- Safe-state mode to stop the application program (e.g. if the device does not function properly due to errors in the project design or during commissioning)
- Function for reset

Technical Data	
KNX RF	
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
KNX TP (media coupler operation)	
KNX medium:	TP 256
Commissioning mode:	S-mode
Rated voltage KNX:	DC 21 ... 32 V SELV
Current consumption KNX:	max. 5 mA
Repeater operation	
Rated voltage:	DC 24 V SELV
Data according to EN 300220	
Receiver category:	2
Degree of protection:	IP20
Protection class:	III
Ambient temperature:	−20 ... +55 °C
Storing temperature:	−25 ... +45 °C
Transport temperature:	−25 ... +70 °C
Relative humidity:	10 ... 100 % (no condensation)
Dimensions (L x W x H):	44 x 29 x 16 mm

KNX Radio Converter Device and System Components

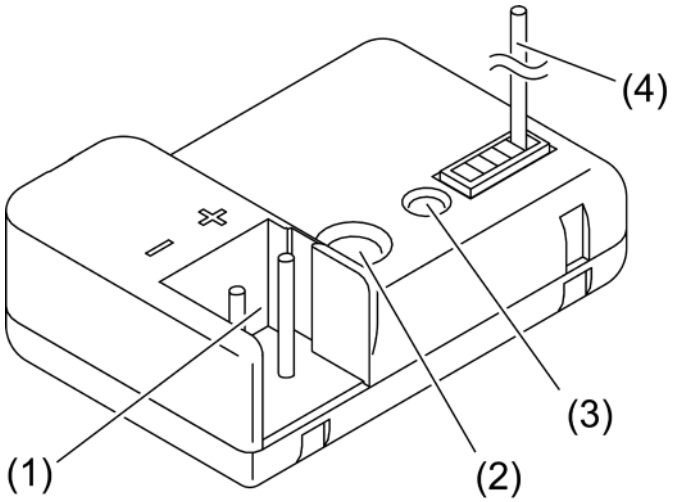

Figure 1: Device components

1. KNX connection (TP)
2. Programming button
3. Status LED
   Red lit up: Prog. mode
   Red flashing quickly: Filter function deactivated
   Red flashing slowly: Safe-state mode active
   Yellow flashing: telegram traffic
   Yellow lit up: Repeater prog. mode
4. Antenna (RF)

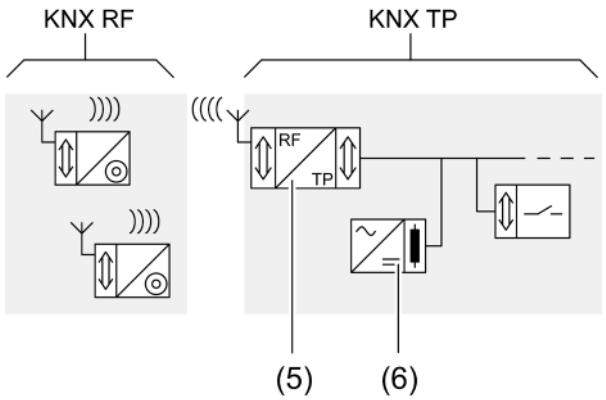

Figure 2: Media coupler and RF participant

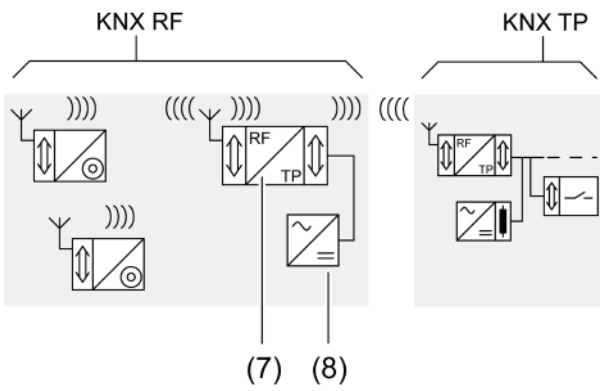

Figure 3: Media coupler and RF participant, supplemented by repeater

5. Media coupler or segment coupler
6. KNX power supply with choke
7. Repeater
8. Power supply

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