

Product data sheet

KNX RF radio converter



Reference number

MK 100 RF

KNX RF radio converter

project design and commissioning with ETS5 or a more recent version

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 DC, e.g. ref.-no. NT 2415 REG VDC)
- Installation in flush box with dimensions according to DIN 49073 in combination with a suitable cover

Product characteristics

- 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 to delivery state

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
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Data according to EN 300220

Receiver category:	2
Degree of protection:	IP20
Protection class:	III
Ambient temperature:	–20 ... +55 °C
Storage 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