

FEATURES

- KNX TP/RF Media Coupler (RF4.R @ 915.0 MHz)
- Maximal APDU length of 254 bytes
- Internal RF antenna
- Total data saving on KNX bus failure
- Integrated KNX BCU (TP1-256)
- Dimensions 39 x 39 x 10.5 mm
- Can be mounted within distribution boxes or wall back boxes
- Conformity with the CE, UKCA, RCM directives (marks on the rear side)

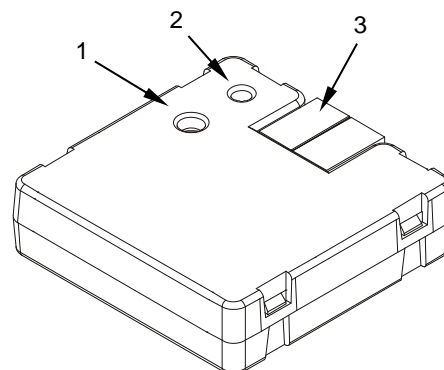


Figure 1: ZMCoup RF 915

| 1. Programming/Factory reset button | 2. Programming/RF traffic LED | 3. KNX connector |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------|
| <p>Programming/Factory reset button: short press to set programming mode. If this button is held while plugging the device into the KNX bus, it enters the safe mode. If the device is already in safe mode and this button is held for more than 10 seconds, a factory reset is performed.</p> <p>Programming/RF traffic LED: programming mode indicator (red). When the device enters the safe mode, it blinks (red) every half second. During the start-up (reset or after KNX bus failure) and if the device is not in safe mode, it emits a red flash. If the device is not in programming or safe mode, it emits a green flash to indicate the reception of a RF frame from its own domain.</p> | | |

GENERAL SPECIFICATIONS

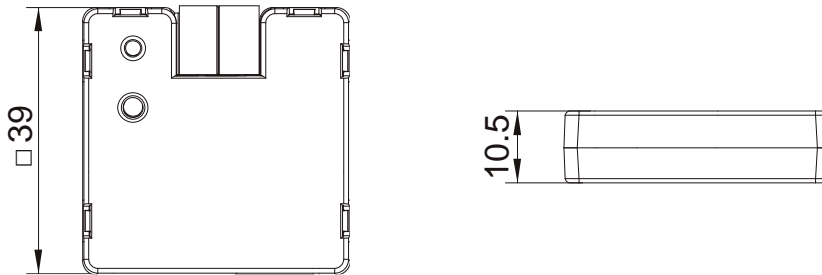
| CONCEPT | | DESCRIPTION | | |
|-------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----|-------|
| Type of device | | Electric operation control device | | |
| KNX supply | Voltage (typical) | 29 VDC SELV | | |
| | Voltage range | 21-31 VDC | | |
| | Maximum consumption ² | Voltage | mA | mW |
| | | 29 VDC (typical) | 6.2 | 179.8 |
| 24 VDC ¹ | 10 | 240 | | |
| Connection type | | Typical TP1 bus connector for 0.8 mm Ø rigid cable | | |
| Communication type | | KNX RF Ready (Bi-directional) | | |
| Maximum transmission power | | 20 mW (13 dBm) | | |
| Radio frequency | | 915.0 MHz | | |
| External power supply | | Not required | | |
| Operation temperature | | 0 .. +55 °C | | |
| Storage temperature | | -20 .. +55 °C | | |
| Operation humidity | | 5 .. 95% | | |
| Storage humidity | | 5 .. 95% | | |
| Protection class | | III | | |
| Operation type | | Continuous operation | | |
| Device action type | | Type 1 | | |
| Electrical stress period | | Long | | |
| Complementary characteristics | | Class B | | |
| Degree of protection | | IP20, clean environment | | |
| Installation | | Independent device to be mounted inside distribution boxes or wall back boxes | | |
| Minimum clearances | | Not required | | |
| RF Range ³ | | Up to 150 m in free-field | | |
| Response on KNX bus failure | | Data saving according to parameterization | | |
| Response on KNX bus restart | | Data recovery according to parameterization | | |
| Operation indicator | | The programming LED indicates programming mode (red). A green flash indicates the reception of a RF frame in its domain. | | |
| Weight | | 14 g | | |
| PCB CTI index | | 175 V | | |
| Housing material | | PC FR V0 halogen free | | |

¹ Maximum consumption in the worst-case scenario (KNX Fan-In model).

² The maximum consumption depends on the transmission power parameterized.

³ The maximum range depends on several factors such as environmental conditions, device orientation, type and thickness of the surrounding materials, etc.


DIMENSIONS (mm)



INSTALLATION NOTES

- The maximum range of an RF connection depends largely on the building materials or the environmental phenomena (rain, snow...). There are materials such as reinforced concrete, bricks or metallic surfaces which attenuate the signal more than others like drywalls or wood.
- The RF signal can be reflected by some surfaces (depending on the material, dimensions...), which may affect the transmissions.
- The installation of RF devices near the ground is not recommended.
- RF devices must not be installed inside metallic boxes or cabinets.
- It is recommended that the ZMCoup RF is located approximately in the centre of all the RF devices of its line.
- In order to extend the range of an RF facility, bidirectional devices configured as Domain Retransmitters can be used. However, an excessive use of them may saturate the transmission medium.
- It is recommended to avoid the installation of RF devices near electromagnetic sources (wireless telephones, electronic control gears, microwaves, WiFi routers, Bluetooth devices...)

SAFETY INSTRUCTIONS AND ADDITIONAL NOTES

- Installation should only be performed by qualified professionals according to the laws and regulations applicable in each country.
- Do not connect the mains voltage nor any other external voltage to any point of the KNX bus; it would represent a risk for the entire KNX system. The facility must have enough insulation between the mains (or auxiliary) voltage and the KNX bus or the wires of other accessories, in case of being installed.
- Once the device is installed (in the panel or box), it must not be accessible from outside.
- Keep the device away from water (condensation over the device included) and do not cover it with clothes, paper or any other material while in use.
-  The WEEE logo means that this device contains electronic parts and it must be properly disposed of by following the instructions at <https://www.zennio.com/en/legal/weee-regulation>.
- This device contains software subject to specific licences. For details, please refer to <http://zennio.com/licenses>.