

Repeater wave UP 141

5WG3 141-2AB01

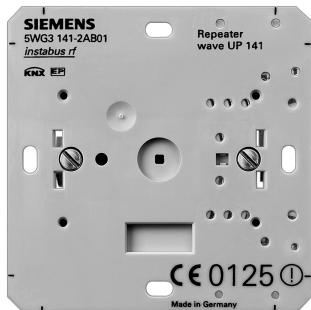
**Product- and Application Description**

Diagram A

The Repeater wave UP 141 (**Diagram A**) is a flush-mounted device with radio communication which will repeat each correctly received radio telegram once and mark it as a repeated telegram. It will be installed when the receipt of radio telegrams in larger dwellings or houses is attenuated thus by walls, ceilings or furniture items that a connected receiver cannot receive the radio telegrams correctly. When receiving an already repeated telegram the UP 141 will not repeat this telegram once more.

The Repeater wave UP 141 has to be connected to the 230V network as it is supplied with current via an integrated power supply unit. No logical connecting (teaching-in) to other radio controlled devices is needed.

**Technical Specifications****Frequency band**

868 MHz (transmission is not susceptible to interference; frequency band reserved for system and security applications)

**Range of radio control**

approx. 100 m (applying to free field applications)

**Power supply**

via the 230V mains connection,  
rated voltage: AC 230V, 50Hz

**Connections**

- 2 screw terminals for mains and load connection;  
Insulation strip length: approx. 5 mm
- The following conductors are permitted per screw terminal:
  - two solid conductors 0.5 to 1.5 mm<sup>2</sup> or
  - one solid or finely-stranded conductor 0.5 to 2.5 mm<sup>2</sup>

**Mechanical specifications**

- Housing: plastic
- Dimensions:
  - Spacer units: 71 x 71mm
  - Mounting depth: 32 mm
- Weight: approx. 60 g (including mounting hanger)
- Fire load: approx. 1000 kJ
- Mounting: inserted in box mounts according to DIN 49073-1, Ø 60 mm, min. depth 40 mm.

**Electrical safety**

- Pollution degree (acc. to IEC 60664-1): 2
- Protection (acc. to EN 60529): IP 20
- Overvoltage category (acc. to IEC 60664-1): III
- Device complies with EN 60669-2-1

**Electromagnetic compatibility**

complies with EN 300220, EN 301489, EN 60669-2-1

**Environmental specifications**

- Climatic conditions: EN 50090-2-2
- Ambient operating temperature: - 5 ... + 45°C
- Storage temperature: - 25 ... + 70°C
- Relative humidity (non-condensing): 5% to 93%

**Certification**

VDE certificate in preparation, complies with KNX - standard  
radio frequency rf  
easy mode push button EP

**CE norm**

complies with the EMC regulations (residential buildings), low voltage regulations and R&TTE regulations:



The CE declaration can be inspected at:

SIEMENS AG  
Siemensstraße 10  
93055 Regensburg

**Installation Instructions****Notice :**

- The installation of the device into metal walls has to be avoided since this considerably reduces the range of radio control.
- Occasionally the transmission range may be influenced by structural conditions (e.g. reinforced concrete) or electric / electronic sources of interference.
- A minimum distance of 1 m must be maintained between the repeater and any other radio controlled device.
- Though the radio transmission is carried out in the safe 868 MHz range, disruptions to the radio transmission cannot be excluded.

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- The used radio transmission is not suitable for security applications.

**△ DANGER**

- The device may be used for interior installations and in dry rooms only.
- The device must be mounted and commissioned by an authorised electrician.
- The device must not be opened.
- The device may be mounted in switch and socket combination box mounts provided that only VDE-certified devices are used.
- The prevailing safety and accident regulations must be observed.

**Mounting**

The Repeater wave UP 141 should be installed in the middle of those radio controlled devices of which the radio communication shall be improved.

It is connected to the mains cable (L and N conductor, **Diagram B**) and mounted in an installation box (Ø 60 mm and 40 mm depth) using screw or claw fixing. When being installed later it may be mounted in the box of a former mains outlet or in a distribution box. Then a blanking cover plate with the relevant frame (both to be ordered separately) is placed on the Repeater wave UP 141 and fixed by a screw (**Diagram C**).

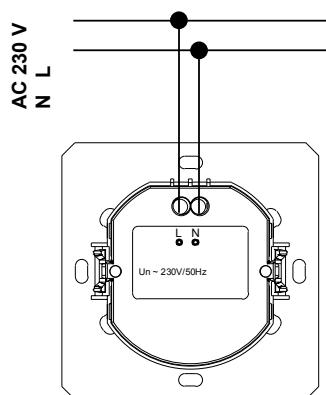


Diagram B

**Note:** Together with a blanking cover plate of DELTA profil or DELTA style the 6 mm long screw of the enclosed ones has to be used. The 10 mm screw is intended for use with blanking cover plates of the DELTA i-system.

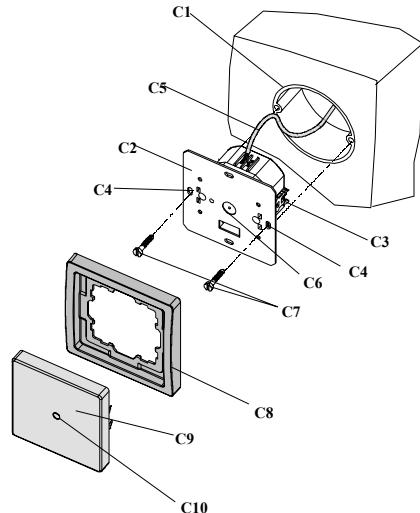


Diagram C

C1	Installation box (60 mm Ø, acc. to DIN 49073-1)
C2	Repeater wave UP 141
C3	Mounting claws
C4	Mounting slots for screw fixing
C5	Cable for mains connection
C6	Mounting slot for the screw of the blanking cover plate
C7	Mounting screws
C8	Frame
C9	Blanking cover plate
C10	Screw fixing of the blanking cover plate

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**Location and Function of the Display and Operating Elements**

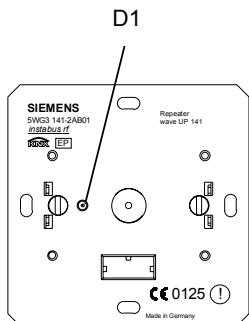
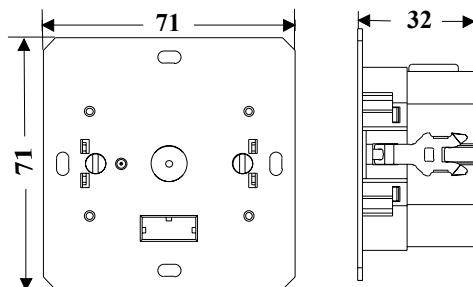


Diagram D

D1 LED for displaying the correct receipt of a radio telegram by a short flash.

**Dimension Diagram**

Dimensions in mm



**Commissioning**

**Note:** The Repeater wave UP 141 must be connected to the 230V cable for the commissioning. No connecting (teaching-in) to other radio controlled devices is needed.

**General Notes**

- The operating instructions should be handed over to the customer.
- Any faulty device should be returned to the local SIEMENS office.
- Should you have any further queries about this product, please contact our Technical Support Department:

+49 (0) 180 50 50-222  
 +49 (0) 180 50 50-223  
 [adsupport@siemens.com](mailto:adsupport@siemens.com)  
 [www.siemens.com/automation/support-request](http://www.siemens.com/automation/support-request)

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**Notes**