

Push Button wave shutter UP 211
5WG3 211-2_B_1
Product and Applications Description


The push button wave shutter UP 211 is a single radio control push button used both as a transmitter and a receiver for controlling shutters. The available colours match the DELTA switch ranges i-system (vita, line), DELTA profil and DELTA style. The push button is clipped onto the shutter control insert together with the relevant frame of the switch ranges (to be ordered separately). An additional function is to operate the insert located beneath the push button as well as inserts connected via radio control with a 24 hour automatic mode.

DELTA i-system (DELTA vita, DELTA line):

DELTA i-system push button wave shutter,	
titanium white	5WG3 211-2HB11
DELTA i-system push button wave shutter,	
carbon metallic	5WG3 211-2HB21
DELTA i-system push button wave shutter,	
aluminium metallic	5WG3 211-2HB31

DELTA profil:

DELTA profil push button wave shutter,	
titanium white	5WG3 211-2AB11
DELTA profil push button wave shutter,	
pearl grey	5WG3 211-2AB01
DELTA profil push button wave shutter,	
anthracite	5WG3 211-2AB21
DELTA profil push button wave shutter,	
silver	5WG3 211-2AB71

DELTA style:

DELTA style push button wave shutter,	
titanium white	5WG3 211-2GB11
DELTA style push button wave shutter,	
basalt black	5WG3 211-2GB21

The commissioning of the push button wave shutter is carried out without any additional means via push button actions (Easy mode Push Button: EP).

There are two different operation modes which can be used by the push button wave shutter:

Normal function

- Operation of the insert located beneath the push button
- Remote operation of the insert located beneath the push button via other radio control push buttons or radio control transmitters
- Remote operation of other inserts connected via radio control
- Setting/activating/deactivating the 24 hour automatic mode

Special function

- Establishing connections with other radio control components
- Deleting connections with other radio control components
- Deleting switching intervals of the 24 hour automatic mode

Operation

The operation of the push button wave shutter can be carried out at the TOP, BOTTOM or in the CENTRE (i.e. TOP and BOTTOM simultaneously). The commands UP/DOWN and STEP (i.e. STOP or OPEN/CLOSE the louvres gradually) and a saving function for the 24 hour automatic mode are available.

STEP command (Actions shorter than 0.4s):

TOP	STOP/louvres OPEN
BOTTOM	STOP/louvres CLOSED

UP/DOWN command (Actions between 0.4s and 3s):

TOP	UP command
BOTTOM	DOWN command

Set / activate / deactivate 24 hour automatic mode:
1. Select 24 hour automatic mode

Action: Press the push button rocker in the CENTRE for between 3 and 10 seconds.

Display: The LED of the push button flashes briefly after 3 seconds; the push button rocker can be released.

If step 2 is not carried out, the 24 hour automatic mode is activated or deactivated.

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The storing of the switching times for upward and downward movement must be carried out within 3 seconds.

2. Storing periods for upward and downward movement

TOP Saves period for upward movement
or
BOTTOM Saves period for downward movement

The switching time which has been set in the automatic operation mode is carried out again every 24 hours, once it has been saved and activated. If e.g. a period for downward movement is saved at 7 o'clock in the evening and a period for upward movement is saved at 7 o'clock in the morning, these UP and DOWN commands are repeated each day at the same time.

The automatic movement commands are also transmitted to further shutters that are linked via radio control.

The 24 hour automatic mode is activated immediately if a period for UP or DOWN movement has been saved successfully.

The LED located in the centre of the push button is permanently lit to indicate that the 24 hour automatic mode has been activated.

Note: Depending on the device tolerances and temperature fluctuations, the stored switching times for upward and downward movement can be adjusted every day by several minutes.

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 physical external interface (230V-PEI) of the shutter control inserts sys

Connections

10 pin bar (230V-PEI) for connection to the shutter control insert sys

Mechanical specifications

- Housing: plastic
- Dimensions (L x W x D):
 - DELTA i-system 55x55x24mm (including spring)
 - DELTA profil 65x65x25mm (including spring)
 - DELTA style 68x68x27mm (including spring)
- Weight: approx. 35g
- Fire load: approx. 950kJ
- Mounting: placed on the shutter control inserts sys

Electrical safety

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


Electromagnetic compatibility

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

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 

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

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Installation Instructions

Caution:

- The device may be used for interior installations and in dry rooms only.
- The installation of the device into metal walls has to be avoided since through this the range of radio control is reduced considerably.
- Occasionally the transmission range may be influenced by structural conditions (e.g. reinforced concrete) or electric / electronic sources of interference.
- A minimum distance of 0.5 m must be maintained between the transmitter and the relevant receivers.
- Though the radio transmission is carried out in the safe 868 MHz range, disruptions to the radio transmission cannot be excluded.
- The radio transmission is not suitable for security applications.

**WARNING**

- 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 push button wave shutter is clipped onto the shutter control insert sys together with its frame. The electrical connection between the push button and the shutter control insert is thus established via the 230V-PEI.

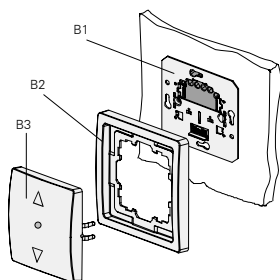
Mounting of the Push Button wave shutter UP 211:

Diagram B

- B1 Shutter control insert sys
B2 Frame
B3 Push button wave shutter UP 211

- 1) The shutter control insert sys is connected and mounted within the flush-type box (see installation instructions for shutter control insert sys).
- 2) Place the push button wave shutter together with its frame onto the shutter control insert sys.

Dismantling:

Remove the push button wave shutter manually together with its frame (Diagram C).

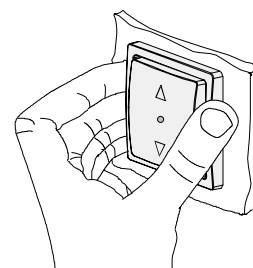


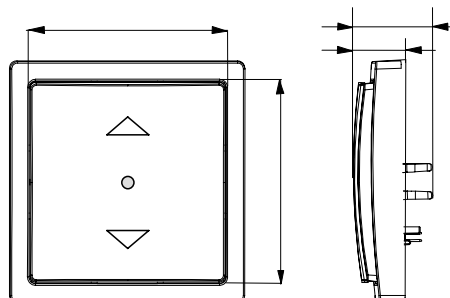
Diagram C

Caution: Cut-out frames have to be used to integrate the push button wave shutter into the DELTA profil range!

Dimension Diagram

Dimensions in mm

	A	B	C	D
DELTA i-system	55	55	24	13
DELTA profil	65	65	25	14
DELTA style	68	68	27	16,5



Commissioning

The function of the insert located beneath the push button is ensured without further commissioning once the push button has been placed on it.

If further shutter control inserts sys are to be operated via the remote control mode, radio control connections must first be established between each insert. Shutter control inserts sys which have to be connected must also be equipped with a push button wave shutter.

The connection of the push button wave shutter with other radio components is carried out by pressing the push button. To do so, the special function must be set for the two devices which have to be connected with each other. The operating state of the push button and the successful connection are displayed by the LED located in the centre of the push button.

Connection via radio control:

Connecting the push button wave shutter I with a shutter control insert sys II via radio control.

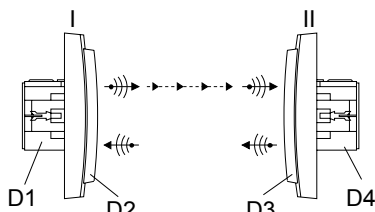


Diagram D

- D1 Shutter control insert sys I
- D2 Push button wave shutter I
- D3 Push button wave shutter II
- D4 Shutter control insert sys II

1. Push button wave shutter II: Switch to the special function (D3).

Action: Press the push button rocker II in the CENTRE for at least 10 seconds.

Display: The LED of the push button begins to flash slowly (approx. once per second) after 10 seconds (toggling to the special function).

2. Push button wave shutter I: Switch to the special function (D2).

Action: Press the push button rocker I in the CENTRE for at least 10 seconds.

Display: The LED of the push button begins to flash slowly (approx. once per second) after 10 seconds (toggling to the special function).

3. Push button wave shutter I: Transmit a linking telegram (D2).

Action: Brief operation (up to 0.4 sec.) of the push button rocker I at the TOP, CENTRE or BOTTOM.

Display: The LED of push button wave shutter I flashes rapidly (3 times per second) for approx. 3 seconds if the connection has been established successfully. The LED is then extinguished and the push button exits the special function. The LED of the push button wave shutter II also flashes and is extinguished. The push button then exits the special function.

Note: There is only a limited period available for the connection as the push buttons wave shutter exit the special function after 2 minutes.

The connection of push button wave shutter I with shutter control insert II is complete. When push button wave shutter I (D2) is pressed, the shutter control insert sys II (D4) is also operated via radio control.

If the connection has failed (e.g. if the distance is too great), the two push buttons wave shutter exit the special function after max. 2 minutes, without confirming the success of the connection by flashing rapidly.

This procedure must be repeated if push button wave shutter I is to be connected with other shutter control inserts sys.

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An unlimited number of shutter control inserts sys can be operated via remote control by the push button wave shutter (Diagram E).

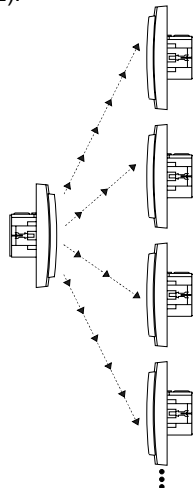


Diagram E

A shutter control insert sys equipped with a push button wave shutter can be operated via remote control by up to 10 radio control push buttons (Diagram F).

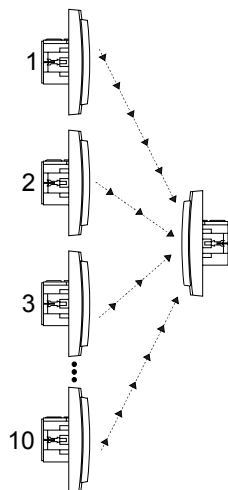


Diagram F

If you wish shutter control insert I (G1 in Diagram G) to be operated via remote control by push button wave shutter II (G3), the two push buttons wave shutter I and II must be switched to the special function again. However, the linking telegram has to be triggered at push button wave shutter II.

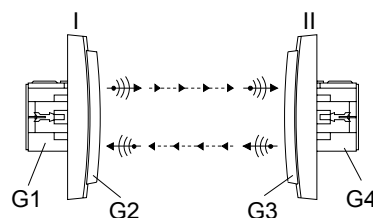


Diagram G

- G1 Shutter control insert sys I
- G2 Push button wave shutter I
- G3 Push button wave shutter II
- G4 Shutter control insert sys II

Procedure for deleting a connection:

Single connections can be deleted by assigning the new correlation.

Deletion of the connection between the push button wave shutter in combination I and the shutter control insert sys in combination II (Diagram D).

1. Push button wave shutter II: Switch to the special function
2. Push button wave shutter I: Switch to the special function
3. Push button wave shutter I: Trigger the linking telegram

The connection between push button wave shutter I and shutter control insert II is thereby deleted.

Deleting all connections and resetting the supplied state:

1. Switch the push button wave shutter to the special function.

Action: Press the push button rocker in the CENTRE for at least 10 seconds.

Display: The LED of the push button begins to flash slowly (approx. once per second) after 10 seconds (toggling to the special function).

2. Reset the device.

Action: Press the push button rocker again in the CENTRE for at least 10 seconds.

Display: The LED of the push button flashes rapidly (3 times per second) for approx. 3 seconds. The LED is then extinguished and the push button exits the special function.

All connections are deleted. The device is restored to its initial state.

Connections of this push button wave shutter to other inserts are retained and must likewise be deleted.

Delete automatic 24 hour switching intervals:

1. Switch the push button wave shutter to the special function.

Action: Press the push button rocker in the CENTRE for at least 10 seconds.

Display: The LED of the push button begins to flash slowly (approx. once per second) after 10 seconds.

2. Delete the switching times.

Action: Long operation (between 3 and 10 seconds) of the push button rocker at the TOP to delete the period for upward movement or at the BOTTOM to delete the period for downward movement.

The set period for upward or downward movement is deleted. Once these time settings have been successfully deleted, the 24 hour automatic mode is disabled. The LED located in the centre of the push button is extinguished. The device is in the normal mode.

Exiting the special function:

If the push button wave shutter is operated in the special function mode, this state is terminated by the following actions and switched back to normal mode.

1. Transmission of a linking telegram.
2. Receipt of a linking telegram.
3. Deletion of an automatic 24 hour switching interval (long operation (between 3 and 10 seconds) of the push button rocker at the TOP or BOTTOM).
4. Time out after 2 minutes (no push button actions are carried out and no linking telegrams are received for a period of two minutes).

General Notes

- The operating instructions must be handed over to the client.
- Any faulty devices should be returned to the local Siemens office.
- If you have further questions concerning the product please contact our technical support:



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www.siemens.de/automation/support-request