



Product and Applications Description

For wireless control of actuators, the IR wall switch transmitter AP 422 sends IR signals that are picked up by the IR receiver S 440 and forwarded to the IR decoder N 450 for conversion to appropriate bus telegrams. Thus, the IR wall switch transmitter AP 422 can send commands to actuators for defined on/off switching, dimming lights, raising/lowering venetian blinds or adjusting louvers. The IR wall switch transmitter AP 422 provides four preselection buttons for four separate groups of actuators that can be controlled via a rocker switch after the appropriate button has been selected.

Note: Batteries (J type FLATPACK Alkaline, 6V) must be purchased separately.

Application Programs

No application program required.

Technical Specifications

Control power supply

Battery FLATPACK Alkaline, 6V, Type J
(must be purchased separately:
order-no. 5WG1 490-8AA81)

IR transmitting unit

- Light wave length: 950nm
- Transmission frequency: 458 kHz
- Transmission range:
5WG1 422-3AB11: approx. 8m (24')
non-focussed, requires direct line of sight to receiver
- Available channels: 4 of 64

Channel selection elements

For channel selection rotary switch (located in the casing,
accessible once the back is removed)

Control elements

- Preselection: 4 preselection buttons
- Operation: single two state switch

Display elements

- 1 red LED for monitoring transmissions and battery
- 1 red LED for indicating the preselection

Physical specifications

- polymer casing
- dimensions (W x H): 75 x 115 mm
- weight: approx. 80 g (3oz) (without batteries)

Electrical safety

- protection (according to EN 60529): IP 20
- overvoltage class: III

Electromagnetic compatibility

complies with Part 15 of the FCC rules pursuant to the limits for a Class A digital device

Environmental specifications

- ambient temperature operating: - 5 - + 45 °C (23-113°F)
- Maximum ambient temperature range:
- 25 - + 70 °C (-13-158°F)
- relative humidity (non-condensing): 5 % to 93 %

Listings and Certifications

UL listed (173 174)

UL 916, Energy Management Equipment Accessory

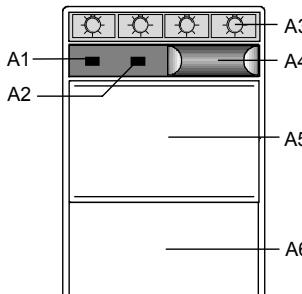
CSA certified (pending)

CE marked

complies with EMC regulations (residential and non-residential buildings), and low voltage regulations

EIB certified

Location and Function of the Control Elements and Display



- A1 When operating a pre-selection button the LED is illuminated for 5 seconds. With every subsequent operation this time period is restarted.
 A2 LED for control of transmission and battery: illuminated when operating the rocker switch; if the LED does not respond, replace battery
 A3 Preselection buttons with labeling area
 A4 IR-transmission diode
 A5 Rocker switch
 upper switching contact = ON / RAISE / BRIGHTER
 lower switching contact = OFF / LOWER / DARKER
 A6 Battery compartment

Label Legends Included

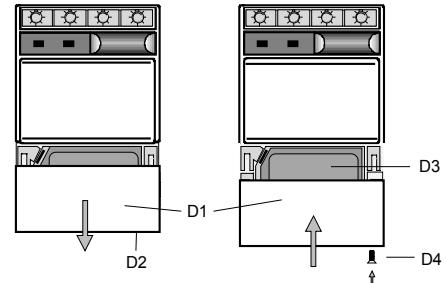
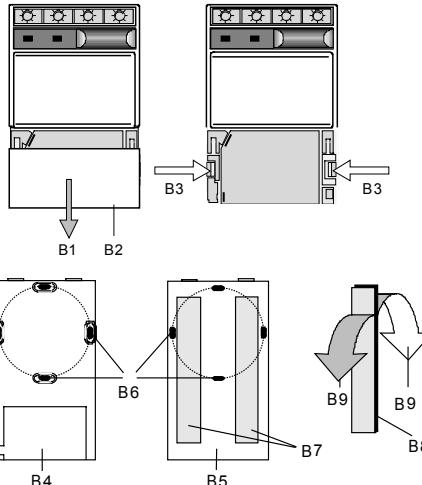
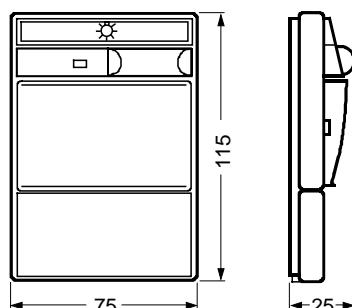
- switch lighting
- dim lighting
- raise/lower blinds/
blinds control
- air conditioning/
ventilation
- open/close
- bell
- timer
- delay

The above can be combined in any order.

To insert the label the cover of the labeling area must be removed from the IR transmitter. Therefor handle the cover by its cut-out on the side with a screwdriver. Lay in the needed label between the paper strip and the cover and slide the cover back onto the IR transmitter.

Dimension Diagram

Dimensions in mm



Battery change

Changing the battery

- Remove the security screw (D2) from the battery compartment lid (D1).
- Slide the battery compartment lid down (see arrow) and take it off.
- Remove the empty battery and replace with new battery (D3) (FLATPACK Alkaline, 6 V order-no.: 5WG1 490-8AA81)
- Slide battery compartment lid (D1) on from below and secure with security screw (D4).

Note: Do not operate IR transmitter switches when replacing the battery!

Set IR Transmission Channel

The IR wall switch transmitter uses four IR channels (one channel per pre-selection button) out of a maximum of 64 available IR channels.

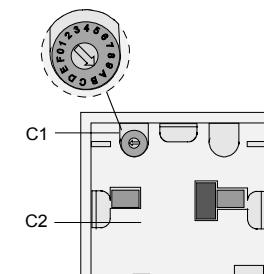
The desired transmission channels are selected with a wheel at the back of the device. Therefor the transmission channels should be selected before mounting the device on the base plate. To access the channel selection wheel later, the IR transmitter has to be dismounted from the base plate.

Channel assignment according to the wheel settings

Wheel setting	Channel, pre-selection buttons			
	Left	Left middle	Right middle	Right
0	0	1	2	3
1	4	5	6	7
2	8	9	10	11
3	12	13	14	15
4	16	17	18	19
:	:	:	:	:
D	52	53	54	55
E	56	57	58	59
F	60	61	62	63

Set transmission channel

The transmission channel is selected with the wheel (C1) at the back of the device (C2).



C1 Wheel with settings 0-F
 C2 IR wall switch transmitter (rear view)