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## Product and Applications Description

For wireless control of actuators the IR remote control S 425 transmits infrared signals received by the IR-receiver S 440 and downloaded to the IR-decoder N 450, which transforms these signals into appropriate bus telegrams.

The IR remote control S 425 can control actuators, e.g. for defined on and off switching, dimming fluorescent lights, or for raising and lowering venetian blinds and adjusting the louvers. The device recognises short and long key depressions.

The key buttons 1...4 allow to control 4 of 8 available IR-channels directly. The remaining 4 channels can be controlled via the key buttons 1...4 after shift button depression (see "button assignment"). The gleaming red LED on the transmitter indicates that the shift mode has been activated by a shift button depression. Depressing the shift button once more deactivates the shift mode and the LED extinguishes. The shift mode is deactivated automatically approx. 8 sec. after the latest command button depression if a shift button depression is not followed by a further shift button depression or a command button depression.

Functional units such as light switching on/off, shutter up/down or light bright/dark are constituted by two single command buttons horizontally arranged (see "button assignment").

**Notes:** The batteries (4 x 1,5 V LR 03) are not included.

## Application Programs

No application programs required

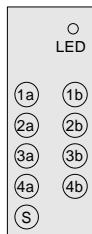
## Channels and button assignments

The code switch is situated within the housing

### Code switch assignments:

Position of the code switch	Channels	Position of the code switch	Channels
0	00 ... 07	5	40 ... 47
1	08 ... 15	6	48 ... 55
2	16 ... 23	7	56 ... 63
3	24 ... 31	8	00 ... 07
4	32 ... 39	9	08 ... 15

### button assignment:



key-button	LED	task	channel*
1a	off	on/up/bright	0
1b	off	off/down/dark	0
2a	off	on/up/bright	1
2b	off	off/down/dark	1
3a	off	on/up/bright	2
3b	off	off/down/dark	2
4a	off	on/up/bright	3
4b	off	off/down/dark	3
1a + S	on	on/up/bright	4
1b + S	on	off/down/dark	4
2a + S	on	on/up/bright	5
2b + S	on	off/down/dark	5
3a + S	on	on/up/bright	6
3b + S	on	off/down/dark	6
4a + S	on	on/up/bright	7
4b + S	on	off/down/dark	7

according to the code switch adjustment.  
in this case: code switch adjustment 0 or 8

## Technical Specifications

### Power supply

4 batteries LR 03 / AAA (1,5 V)  
(to be ordered separately)

### IR transmission unit

- light wave length: 950 nm
- transmission freq.: 458 kHz
- transmission range: approx. 20 m
- adjustable channels: 8 of 64

### Adjustment elements

for channel adjusting:  
code switch (built in the device)

### Operator elements

- 8 command buttons
- 1 shift button (for toggling)

### Display elements

1 red LED  
for displaying shift mode

### Physical specifications

- housing: plastic
- dimensions (L x W x H): 155 x 39 x 23 mm
- weight: approx. 70 g (without batteries)

### Electrical safety

- protection (according to EN 60529): IP 20
- protection class (according to IEC 1140): III

### Reliability

Rate of failure: 208 fit at 40 °C

### Electromagnetic compatibility

complies with  
EN 50080-1, EN 50082-2 and EN 50090-2

### Environmental specifications

- climatic conditions: EN 50090-2-2
- ambient temperature operating: - 5 ... + 45 °C
- ambient temperature non-op.: - 25 ... + 70 °C
- relative humidity (non-condensing): 5 % to 93 %

### CE norm

complies with the EMC regulations (residential and functional buildings)

## Location and Function of the Display and Operator Elements

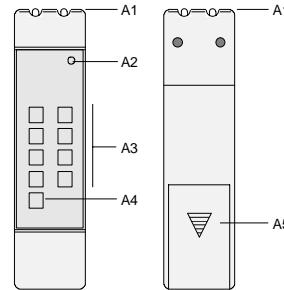


Figure 1: Location and function of the display and operator elements

A1 IR two-electrode transmission tubes

A2 LED for displaying shift mode

A3 command buttons

A4 shift button (for toggling)

A5 battery compartment

## Notes

- A device suspected faulty should be returned to the local Siemens office.

## Inserting batteries

Opening and closing the battery compartment:  
see figure 2

### Inserting batteries:

consider the label inside the compartment (polarisation)

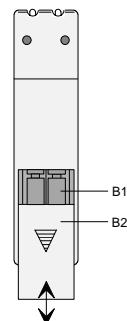


Figure 2: Inserting batteries

B1 batteries

B2 battery compartment cover

## Adjusting the channels

Open the device and adjust the channels on the code switch (see figure 3)

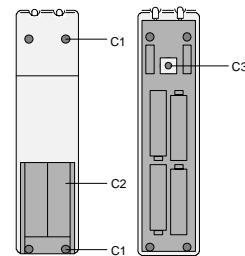


Figure 3: Adjusting channels

C1 screws for opening the device

C2 battery compartment

C3 code switch for adjusting channels