

## Wireless actuator



## Time relay for card switch or smoke alarm FZK70-230V

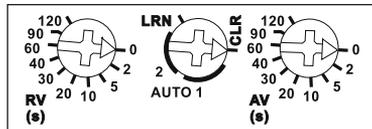
1+1 NO contacts not potential free 10A/250V AC, incandescent lamps 2000 watts. Only 0.9 watt standby loss. Off-delay and response lag are adjustable for one contact.

Mounting in the 230V power supply cord, e.g. in false ceilings.  
100 mm long, 50 mm wide and 25 mm deep.

**This wireless actuator features state-of-the-art hybrid technology that we developed: we combined the wear-free receiver and evaluation electronics and a bistable relay.**

By using a bistable relay coil power loss and heating is avoided even in the on mode. After installation, wait for short automatic synchronisation before the switched consumer is connected to the mains.

### Function rotary switches



Use the left rotary switch RV to set the time delay time RV between 0 and 120 seconds for Contact L-2.

The middle rotary switch is required for teach-in. It is then used to set the response in case of a power failure. AUTO1 retains the switch position, AUTO2 carries out a defined switch-off.

Use the right rotary switch AV to set the response lag time AV between 0 and 120 seconds for Contact L-2.

The AV and RV times permit the simple control of air conditioning systems with the wireless card switches FKF and FKC.

The response lag AV starts as soon as the hotel card/key card is inserted in the wireless card switch FKF and the time delay RV starts after the card is removed.

In addition to the wireless card switch FKF, wireless window/door contacts FTK and Hoppe window handles can also be taught in.

Opening a monitored window also starts the RV time. When the RV time expires, Contact L-2 opens. Closing all monitored windows starts the AV time. When the AV time expires, Contact L-2 closes.

Contact L-1 is provided for light switching and always switches immediately without AV/RV. To increase the switching capacity for one channel, outputs 1 and 2 can be bridged, provided no air conditioning control is required. Then AV and RV must be set to 0.

When motion detectors are taught in, the two channels switch on immediately if motion is detected. If no motion is detected for 15 minutes, the two channels are switched off.

Several wireless smoke alarms FRW-ws are logically linked with this switch actuator time relay so that the RV time only starts after all FRW-ws devices have signalled alarm end.

**Card switches and smoke alarms can not be operated together with an FZK device.**

The LED on the side behind the left rotary switch performs during the teach-in process. It shows wireless control commands by short flickering during operation.

### Teaching-in wireless sensors in wireless actuators

All sensors must be taught-in in actuators so that they can detect and execute their commands

#### Teaching-in actuator FZK70

The teach-in memory is empty on delivery from the factory. If you are unsure whether the teach-in memory contains something or not, you must first clear the memory contents completely:

Set the middle rotary switch to CLR.  
The LED flashes at a high rate. Within the next 10 seconds, turn the left rotary switch three times to the right stop (turn clockwise) and then turn back away from the stop. The LED stops flashing and goes out after 2 seconds. All taught-in sensors are cleared.

Clear individual taught-in sensors in the same way as in the teach-in procedure, except that you set the middle rotary switch to CLR instead of LRN, and operate the sensor. The LED previously flashing at a high rate goes out.

#### Teaching-in sensors

1. Set the middle rotary switch to LRN.  
The LED flashes at a low rate.
2. Operate the sensor to be taught-in.  
The LED goes out.

To teach-in other sensors, turn the middle rotary switch briefly away from position LRN and then turn it back.

Use the right rotary switch to set the response lag AV. Function dependent on sensor type:

#### Wireless card switch FKF and FKC:

After the hotel card/key card is inserted, Contact L-1 closes immediately and the AV starts. When the AV expires, Contact L-2 closes.

#### Wireless window/door contact FTK and/or HOPPE window handles:

After all windows are closed, the AV starts. At the end of the AV, the contact L-2 closes.

#### Motion detector/brightness sensor FBH:

If "motion" is sent, both contacts close immediately.

Use the left rotary switch to set the time delay RV. Function dependent on sensor type:

#### Wireless card switch FKF and FKC:

After the hotel card/key card is removed, Contact L-1 opens immediately and the RV starts. When the RV expires, Contact L-2 opens.

#### Wireless window/door contact FTK and/or HOPPE window handles:

After a window is opened, the RV starts. At the end of the RV, the contact L-2 opens.

#### Motion detector/brightness sensor FBH:

If "no motion" is sent, a fixed time delay of 15 minutes starts. At the end of the time delay, both contacts open.



When an actuator is ready for teach-in (the LED flashes at a low rate), the very next incoming signal is taught-in. Therefore, make absolutely sure that you do not activate any other sensors during the teach-in phase.

## Important note!

Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock.