KRP413A1 operation

Outline

The following pages describe the various possibilities of the KRP413A1S.

Connecting S6 to S21 on the indoor control PCB establishes the main connection between the KRP413A1 and the indoor unit.

If there's no position indication of the switches SW1-1 or –2, it means that that specific switch doesn't matter for that particular function.

Function 1

Automatic reset after power failure:

Put switch SW1-2 in ON position. In the OFF position there will be no restart after power failure, even when it is standard provided by the indoor unit.

Note: This function is only necessary on G-series split inverter units (except for FVXT-G). From H-series onward, automatic restart is standard on all units.

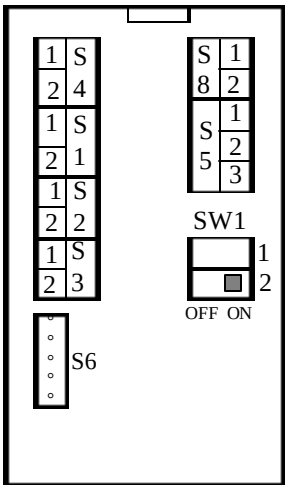


Fig.: KRP413A1 automatic restart after power failure

Continued on the next page

KRP413A1 operation, continued

Function 2 Monitor normal operation (without external power supply)

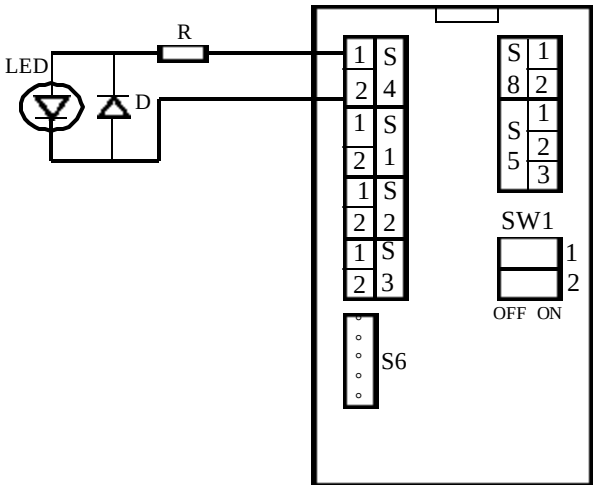


Fig.: KRP413A1 normal operation monitor

Continued on the next page

KRP413A1 operation, continued

Function 3

Monitor signal output (normal operation and alerts) using external relay contacts and power source.

L1 = Alert light
L2 = Operation light

The 12V DC at connector S8 should be locally supplied.

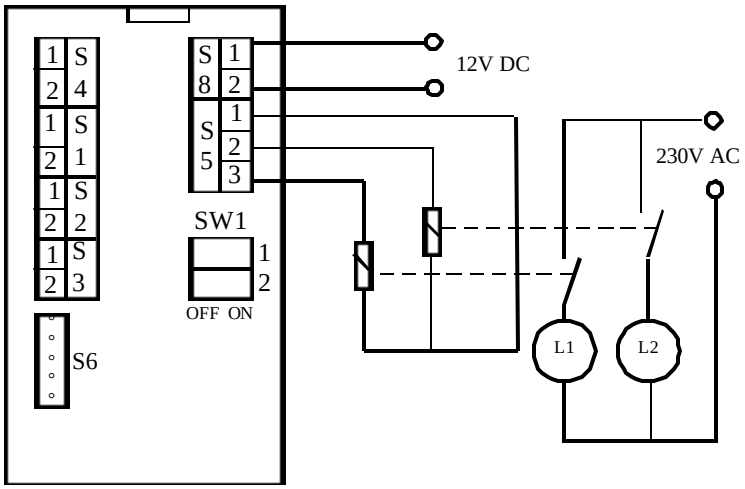


Fig.: KRP413A1 normal operation and error monitor

Continued on the next page

KRP413A1 operation, continued

Function 4

Remote on/off switch.

-SW = regular switch (with ON/OFF position)
=> use short circuit between S1-1 and S2-1
operation by remote controller not possible anymore.

-SW = pulse contact => no short circuit needed
operation by remote controller still possible

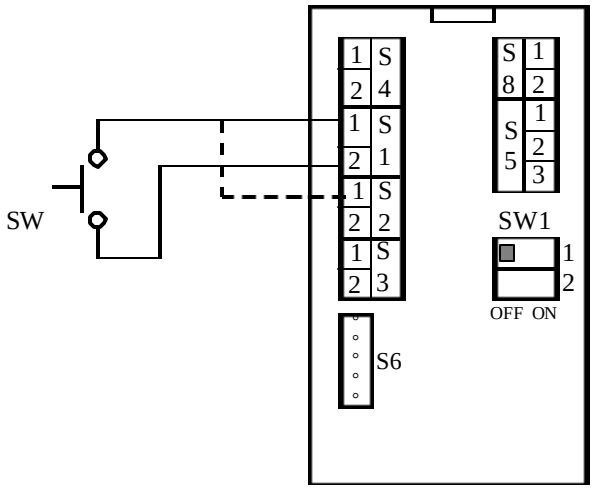


Fig.: KRP413A1 remote ON/OFF

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KRP413A1 operation, continued

Function 5 Connection to KRC72 5-room centralized control.

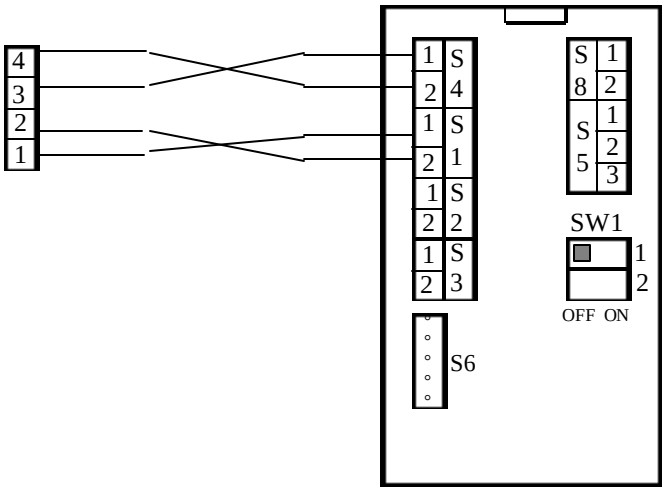


Fig.: KRP413A1 – KRC72 connection

Continued on the next page

KRP413A1 operation, continued

Function 6

How to regulate fan speed or select cooling or heating using the KRP413A1. Using this function disables the remote controller except for certain operations. Temperature setting, autoswing and powerful mode commands can still be given with the remote controller.

Remark: The rotating switch SW2 should be a shorting switch ('make before break' contacts). Otherwise the AC will switch off first before going to a different fan speed.

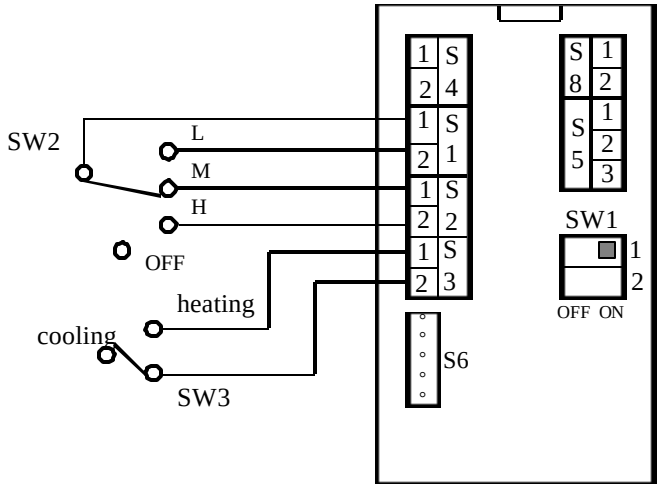


Fig.: KRP413A1 Fan coil remote controller

KRP413A1 application example

Hotel controller

Combining the functions 2, 3 and 6 creates an alternative for hotel rooms, where control without remote controller is requested and the status + main ON/OFF control should be available at the lobby.

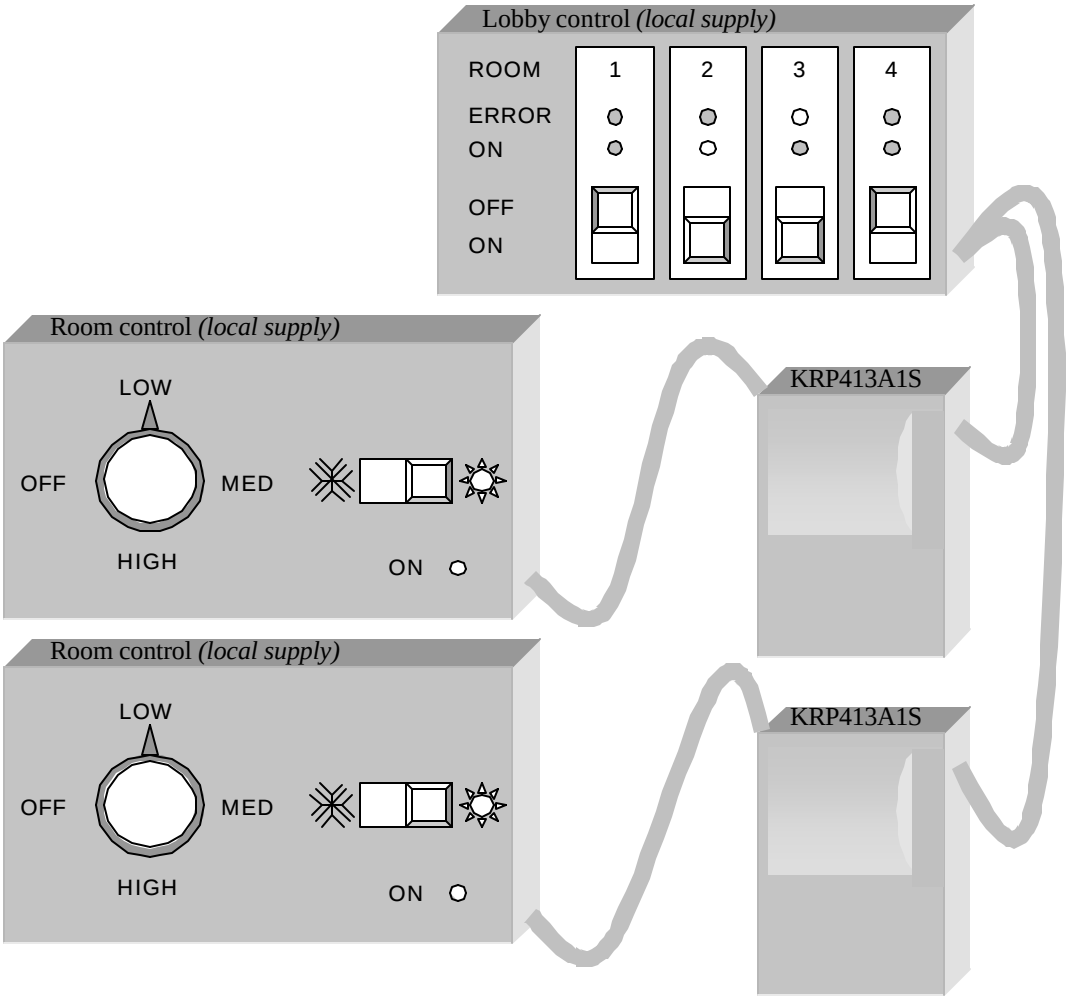
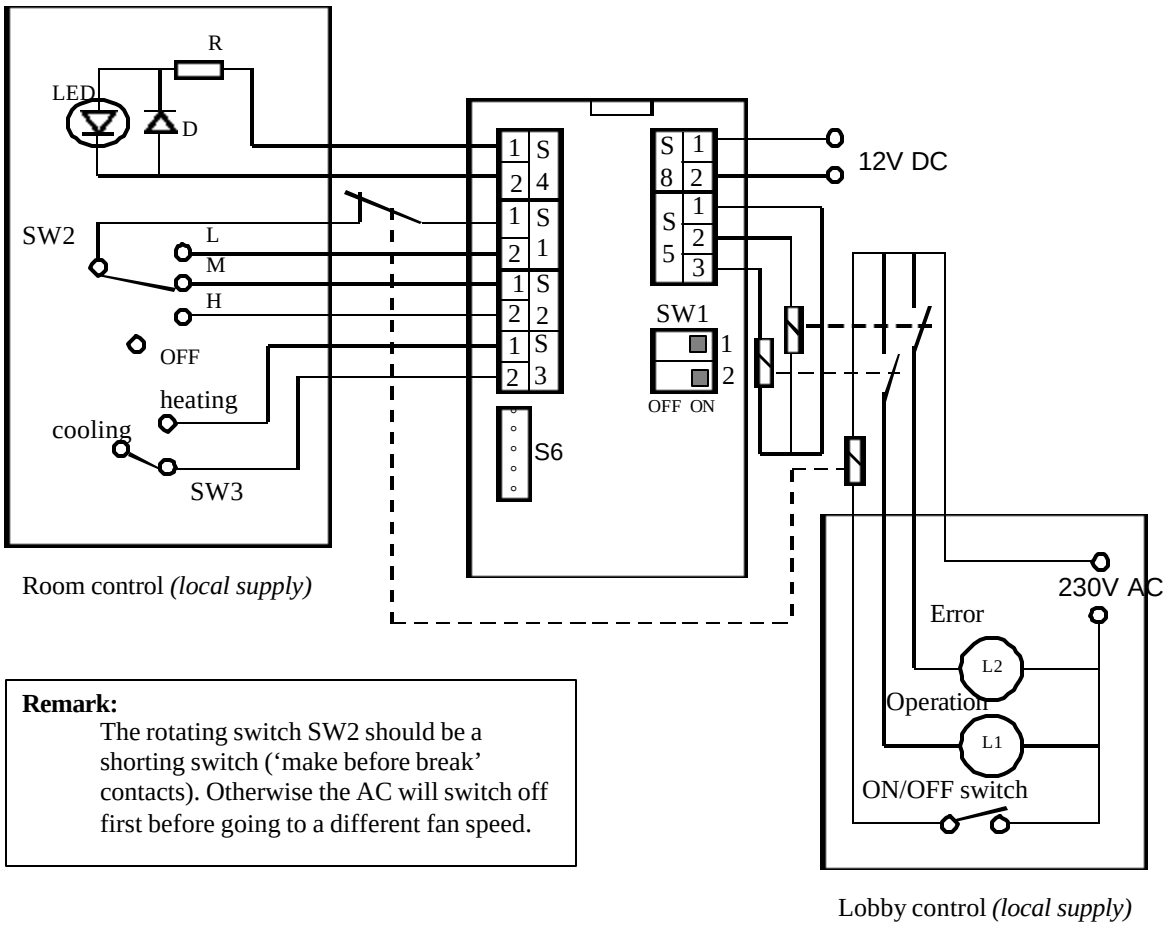


Fig.: KRP413A1 application example

3.4.2 KRP413A1 application example, continued

Wiring



Remark:
The rotating switch SW2 should be a shorting switch ('make before break' contacts). Otherwise the AC will switch off first before going to a different fan speed.

Fig.: KRP413A1 application example schematic