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esphome:
  name: kc868-a6-exp3
  friendly_name: "EXP3"
esp32:
  board: esp32dev
  framework:
    type: arduino

# Enable logging
logger:

# Enable Home Assistant API
api:

captive_portal:

# Example configuration entry for ESP32
i2c:
  sda: 4
  scl: 15
  scan: true
  id: bus_a

# Set UART
uart:
  id: mbus
  tx_pin: GPIO27
  rx_pin: GPIO14
  baud_rate: 9600
  data_bits: 8
  parity: NONE
  stop_bits: 1

# Set MODBUS
modbus:
  id: modbus1
  uart_id: mbus
  send_wait_time: 200ms

# Set Slave (Server)
modbus_controller:
- id: a6_exp1
  address: 1
  modbus_id: modbus1
  update_interval: 1s

# Example configuration entry
pcf8574:
- id: 'pcf8574_hub_out_1' # for output channel 1-8
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address: 0x24

- id: 'pcf8574\_hub\_in\_1' # for input channel 1-8  
address: 0x22

# Individual outputs

switch:

- platform: gpio  
name: "EXP3\_OUT1"  
id: light1  
pin:  
  pcf8574: pcf8574\_hub\_out\_1  
  number: 0  
  mode: OUTPUT  
  inverted: true
- platform: gpio  
name: "EXP3\_OUT2"  
id: light2  
pin:  
  pcf8574: pcf8574\_hub\_out\_1  
  number: 1  
  mode: OUTPUT  
  inverted: true
- platform: gpio  
name: "EXP3\_OUT3"  
id: light3  
pin:  
  pcf8574: pcf8574\_hub\_out\_1  
  number: 2  
  mode: OUTPUT  
  inverted: true
- platform: gpio  
name: "EXP3\_OUT4"  
id: light4  
pin:  
  pcf8574: pcf8574\_hub\_out\_1  
  number: 3  
  mode: OUTPUT  
  inverted: true
- platform: gpio  
name: "EXP3\_OUT5"  
id: light5  
pin:  
  pcf8574: pcf8574\_hub\_out\_1  
  number: 4  
  mode: OUTPUT  
  inverted: true
- platform: gpio  
name: "EXP3\_OUT6"

id: light6  
pin:  
  pcf8574: pcf8574\_hub\_out\_1  
  number: 5  
  mode: OUTPUT  
  inverted: true

- platform: modbus\_controller  
  name: 'modbus-switch1'  
  address: 0 # 0:relay1 1:relay2 .....  
  register\_type: coil  
  bitmask: 1
- platform: modbus\_controller  
  name: 'modbus-switch2'  
  address: 1 # 0:relay1 1:relay2 .....  
  register\_type: coil  
  bitmask: 1
- platform: modbus\_controller  
  name: 'modbus-switch3'  
  address: 2 # 0:relay1 1:relay2 .....  
  register\_type: coil  
  bitmask: 1
- platform: modbus\_controller  
  name: 'modbus-switch4'  
  address: 3 # 0:relay1 1:relay2 .....  
  register\_type: coil  
  bitmask: 1
- platform: modbus\_controller  
  name: 'modbus-switch5'  
  address: 4 # 0:relay1 1:relay2 .....  
  register\_type: coil  
  bitmask: 1
- platform: modbus\_controller  
  name: 'modbus-switch6'  
  address: 5 # 0:relay1 1:relay2 .....  
  register\_type: coil  
  bitmask: 1

binary\_sensor:

- platform: gpio  
  name: "EXP3\_IN1"  
  pin:  
    pcf8574: pcf8574\_hub\_in\_1  
    number: 0  
    mode: INPUT  
    inverted: true
- platform: gpio

```
name: "EXP3_IN2"
pin:
  pcf8574: pcf8574_hub_in_1
  number: 1
  mode: INPUT
  inverted: true

- platform: gpio
  name: "EXP3_IN3"
  pin:
    pcf8574: pcf8574_hub_in_1
    number: 2
    mode: INPUT
    inverted: true

- platform: gpio
  name: "EXP3_IN4"
  pin:
    pcf8574: pcf8574_hub_in_1
    number: 3
    mode: INPUT
    inverted: true

- platform: gpio
  name: "EXP3_IN5"
  pin:
    pcf8574: pcf8574_hub_in_1
    number: 4
    mode: INPUT
    inverted: true

- platform: gpio
  name: "EXP3_IN6"
  pin:
    pcf8574: pcf8574_hub_in_1
    number: 5
    mode: INPUT
    inverted: true
```