

2-2-3 Wiring

Power Supply

Apply 100 to 240 VAC or 12 to 24 VDC to terminals 8 and 9.

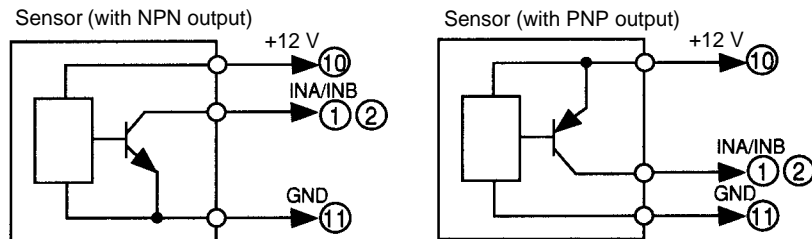
Open Collector Input

Connect the pulse output from sensor A to terminal 1.

Connect the pulse output from sensor B to terminal 2.

Terminals 10 and 11 are exclusively used for a power supply with an output of 80 mA at 12 VDC to sensor A or B. If power is supplied to the sensor A or B from a different power source, do not use terminal 10. Do not connect a sensor with open collector output to terminal 10.

Refer to the following for sensor connections.



- Residual voltage with sensor turned on: 3 V max.
- Current leakage with sensor turned off: 1.5 mA max.
- Switching load current: 20 mA or greater. Must be able to dependably switch a load current of 5 mA max.

Photoelectric sensors, proximity sensors, rotary encoders, and relays can be connected as sensors to the K3NR.

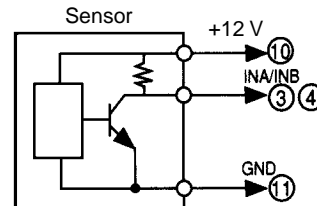
Voltage Pulse Input

Connect the pulse output of sensor A to terminal 3.

Connect the pulse output of sensor B to terminal 4.

Terminals 10 and 11 are exclusively used for a power supply with an output of 80 mA at 12 VDC to sensor A or B. If power is supplied to the sensor A or B from a different power source, do not use terminal 10. Do not connect a sensor with voltage pulse output to terminal 10.

Refer to the following for sensor connections.



H level (sensor output ON): 4.5 to 30 VDC

L level (sensor output OFF): -30 to 2 VDC

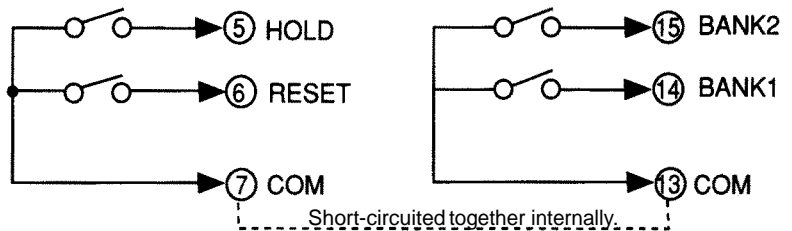
Auxiliary Power Supply

Terminals 10 and 11 are exclusively used for power supply to sensors with an output of 80 mA at 12 VDC \pm 10%.

External Signal Input

HOLD Input RESET Input BANK Input

Connect external signal inputs to terminals 5 through 7 and 13 through 15. Terminals 7 and 13 are connected to each other internally.



Connect HOLD input to terminal 5.

Connect RESET input to terminal 6.

Connect BANK inputs to terminals 14 and 15 for BANK1 and BANK2.

If open collector input is used as external signal input, the transistor must satisfy the following conditions.

- Residual voltage with transistor turned on: 3 V max.
- Current leakage with transistor turned off: 1.5 mA max.
- Switching load current: 20 mA or greater.

Approximately 5 V is imposed between COM and terminals 5 to 7 with a current flow of approximately 18 mA (a nominal value) at the time of external input short-circuiting.