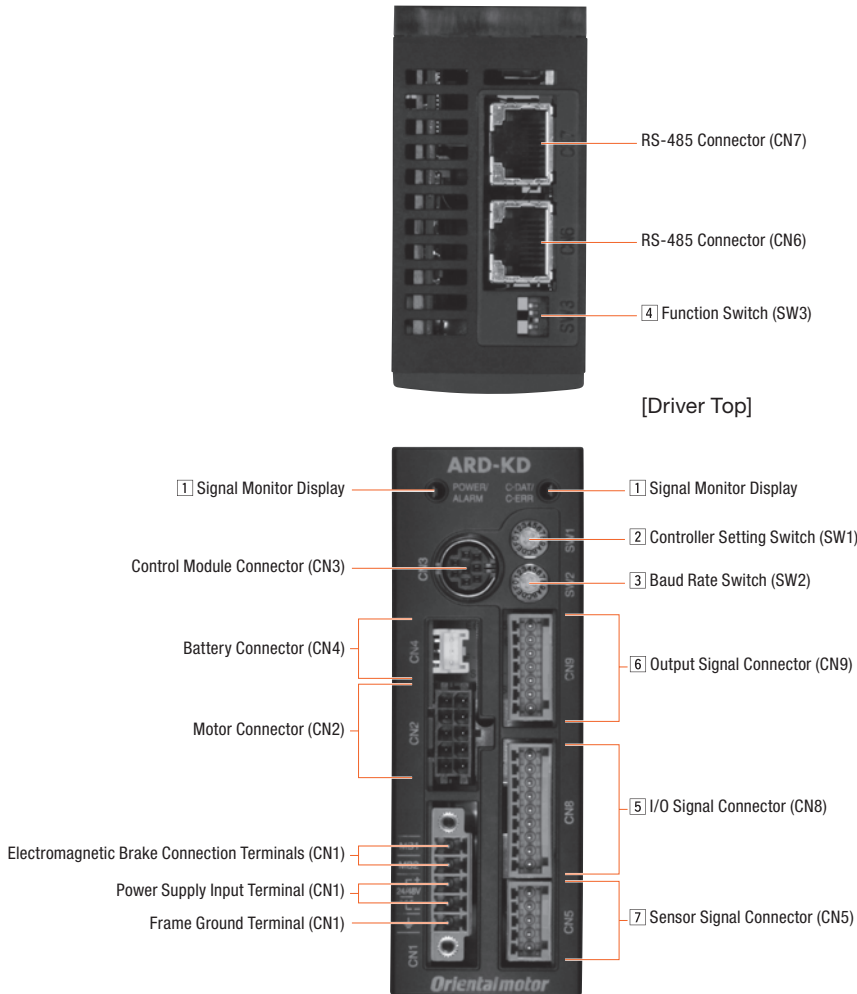


Connection and Operation (Built-in controller type)

Names and Functions of Driver Parts



1 Signal Monitor Display

◇ LED Indicator

Indication	Color	Function	Lighting Condition
POWER	Green	Power Supply Indication	When the power supply is input
ALARM	Red	Alarm Indication	Blinks when protective functions are activated.
C-DAT	Green	Communication Indication	When communication data is being exchanged
C-ERR	Red	Communication Error Indication	When communication data is in error

2 Controller Setting Switch (SW1)

Indication	Function
SW1	Set this when you are using RS-485 communication. Set the controller number (Factory Setting: 0).

3 Baud Rate Switch (SW2)

Indication	Function
SW2	Set this when you are using RS-485 communication. Set the baud rate (Factory Setting: 7).

◇ RS-485 Baud Rate Setting

No.	Baud Rate (bps)
0	9600
1	19200
2	38400
3	57600
4	115200
5~6	Not used
7	625000 (Connection with a network converter)
8~F	Not used

4 Function Switch (SW3)

Indication	No.	Function
SW3	1	Set the controller number (Factory Setting: 0) in combination with Controller Setting Switch (SW1).
	2	Set the RS-485 protocol (Factory Setting: OFF).
	3	Not used.
	4	Set the RS-485 termination (120Ω) (Factory Setting: OFF). OFF: Termination disabled ON: Termination enabled

◇ RS-485 Protocol Setting

Destination No.	Connection with a network converter	Modbus RTU Mode
2	OFF	ON

5 I/O Signal Connector (CN8)

Indication	Pin No.	Signal Name	Initial Value
CN8	1	IN0	HOME Executes a return-to-home operation.
	2	IN1	START Executes a positioning operation.
	3	IN2	M0
	4	IN3	M1
	5	IN4	M2
	6	IN5	FREE Stop motor excitation and release the electromagnetic brake.
	7	IN6	STOP Stops the motor.
	8	IN7	ALM-RST Resets the current alarm.

● Assign functions by setting parameters. Initial values are shown above. For details, refer to the user's manual.

The following input signals can be assigned to input terminals IN0 to 7.

Input Signal				
0: Not used	8: MS0	18: STOP	36: R4	45: R13
1: FWD	9: MS1	24: ALM-RST	37: R5	46: R14
2: RVS	10: MS2	25: P-PRESET	38: R6	47: R15
3: HOME	11: MS3	26: P-CLR	39: R7	48: M0
4: START	12: MS4	27: HMI	40: R8	49: M1
5: SSTART	13: MS5	32: R0	41: R9	50: M2
6: +JOG	16: FREE	33: R1	42: R10	51: M3
7: -JOG	17: C-ON	34: R2	43: R11	52: M4
		35: R3	44: R12	53: M5

6 Output Signal Connector (CN9)

Indication	Pin No.	Signal Name	Initial Value
CN9	1	OUT0	HOME-P This signal is output when the motor is at the home position.
	2	OUT1	END This signal is output when the positioning operation is complete.
	3	OUT2	AREA1 This signal is output when the motor is in area 1.
	4	OUT3	READY This signal is output when the driver is ready.
	5	OUT4	WNG This output signal indicates the driver warning status.
	6	OUT5	ALM This output signal indicates the driver alarm status (normally closed).

● Assign functions by setting parameters. Initial values are shown above. For details, refer to the user's manual.

The following output signals can be assigned to output terminals OUT0 to 5.

Output Signal					
0: Not used	9: MS1_R	33: R1	42: R10	51: M3_R	67: READY
1: FWD_R	10: MS2_R	34: R2	43: R11	52: M4_R	68: MOVE
2: RVS_R	11: MS3_R	35: R3	44: R12	53: M5_R	69: END
3: HOME_R	12: MS4_R	36: R4	45: R13	60: +LS_R	70: HOME-P
4: START_R	13: MS5_R	37: R5	46: R14	61: -LS_R	71: TLC
5: SSTART_R	16: FREE_R	38: R6	47: R15	62: HOMES_R	72: TIM
6: +JOG_R	17: C-ON_R	39: R7	48: M0_R	63: SLIT_R	73: AREA1
7: -JOG_R	18: STOP_R	40: R8	49: M1_R	65: ALM	74: AREA2
8: MS0_R	32: R0	41: R9	50: M2_R	66: WNG	75: AREA3
					80: S-BSY

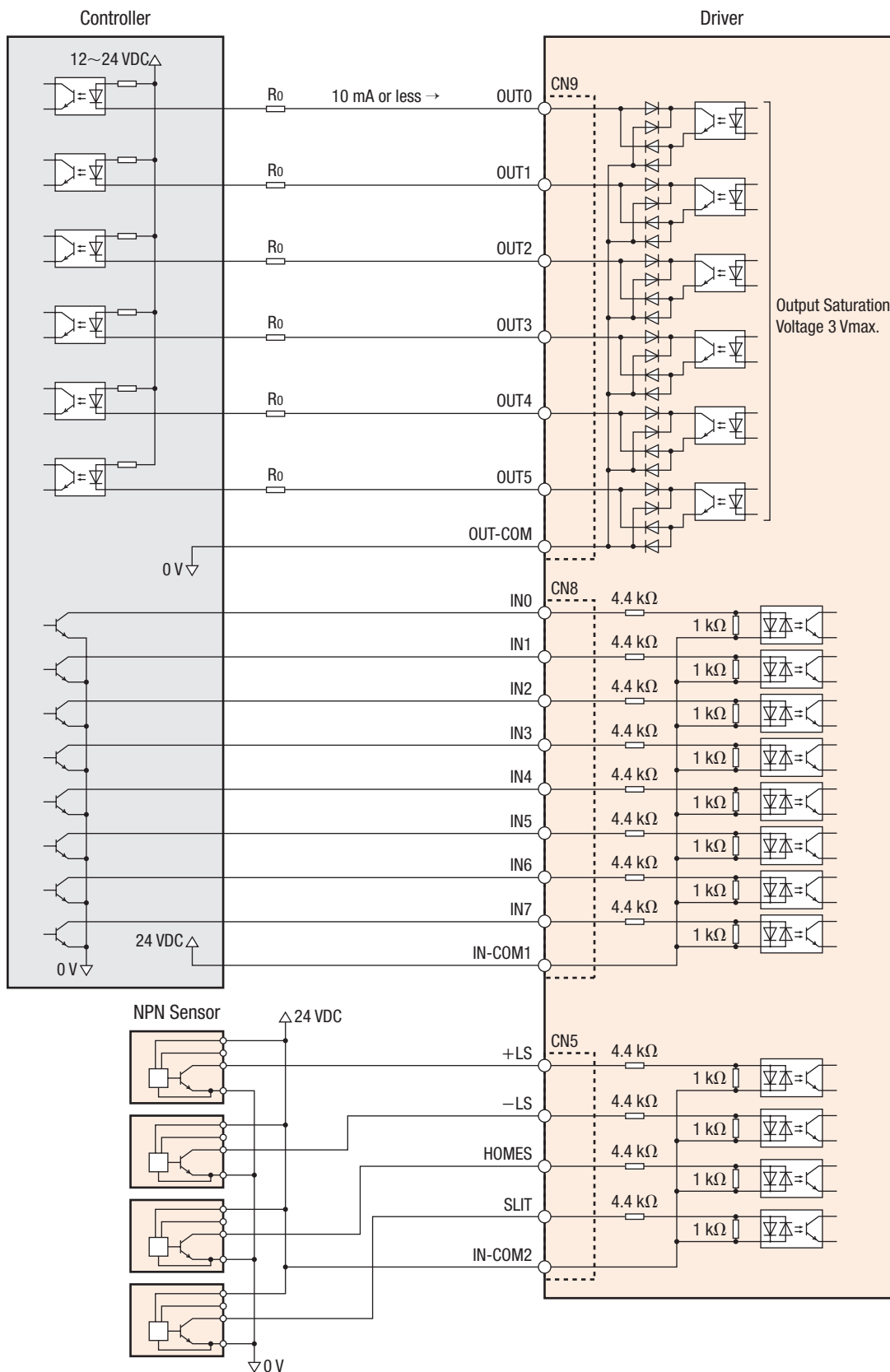
7 Sensor Signal Input (CN5)

Indication	Pin No.	Signal Name	Initial Value
CN5	1	+LS	+side limit sensor input
	2	-LS	-side limit sensor input
	3	HOMES	Mechanical home sensor input
	4	SLIT	Slit Sensor Input
	5	IN-COM2	Sensor common

● Connection Diagram

◇ Connection to Programmable Controller

● Connecting to a Current Sink Output Circuit

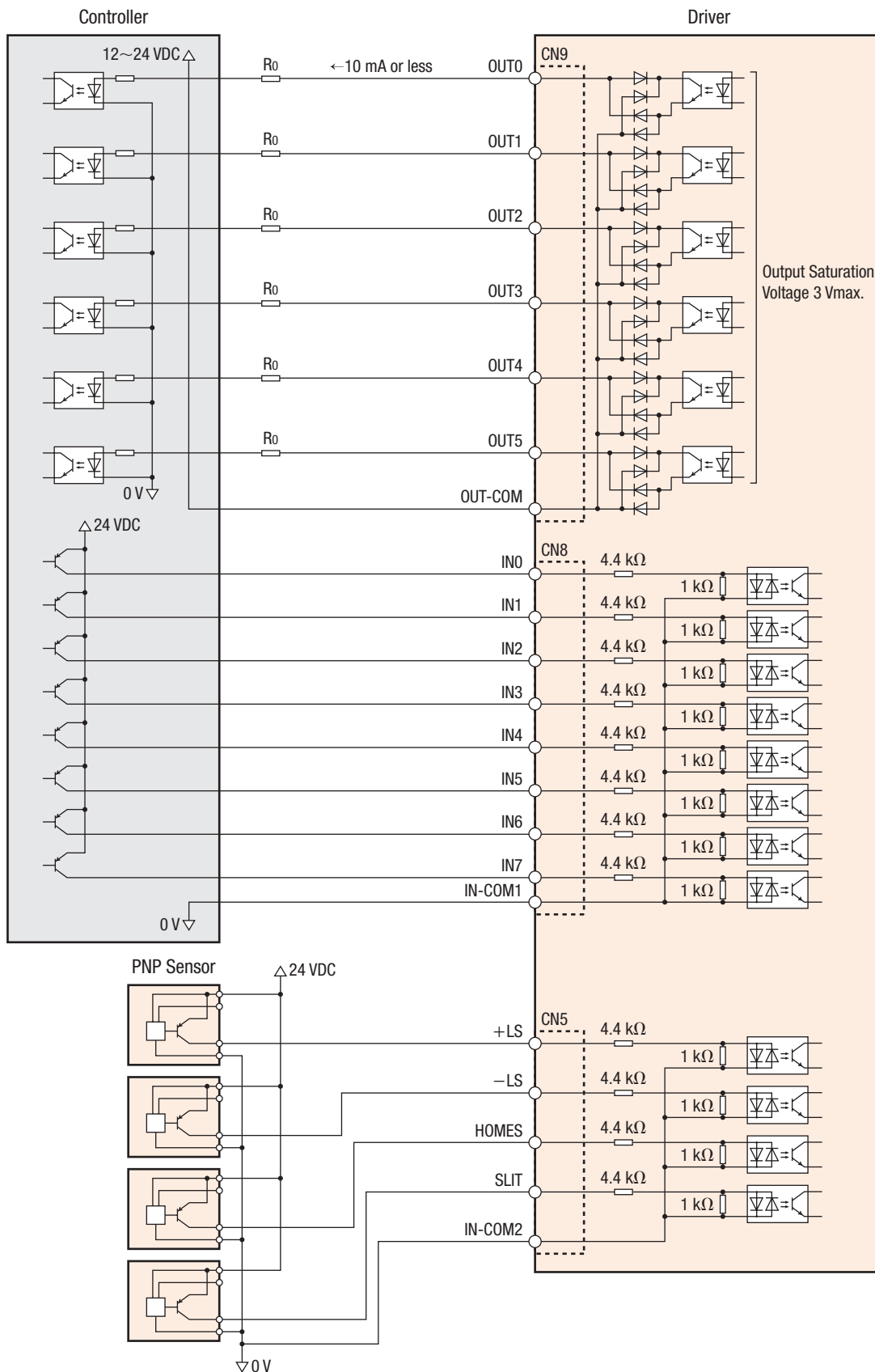


Note

- Use 24 VDC input signals.
- Use 24 VDC output signals at 10 mA or less. When the current value exceeds 10 mA, connect the external resistor R_0 to keep the current 10 mA or less.
- The maximum output signal saturation voltage is 3 V.
- Provide a distance of at least 200 mm between the signal lines and power lines (power supply lines, motor lines, etc.).
- Do not run the signal lines in the same duct as power lines or bundle them with power lines.
- If noise generated by the motor cable or power supply cable causes a problem with the specific wiring or layout, shield the cable or use ferrite cores.

◇Connection to Programmable Controller

●Connecting to a Current Source Output Circuit



Note

- Use 24 VDC input signals.
- Use 24 VDC output signals at 10 mA or less. When the current value exceeds 10 mA, connect the external resistor R_0 to keep the current 10 mA or less.
- The maximum output signal saturation voltage is 3 V.
- Provide a distance of at least 200 mm between the signal lines and power lines (power supply lines, motor lines, etc.).
- Do not run the signal lines in the same duct as power lines or bundle them with power lines.
- If noise generated by the motor cable or power supply cable causes a problem with the specific wiring or layout, shield the cable or use ferrite cores.