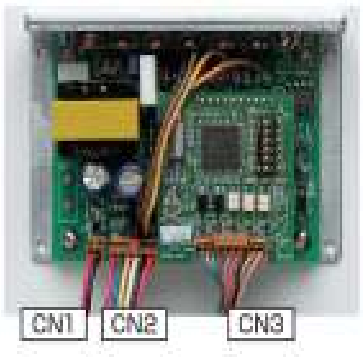
Connection

Connecction motor/Power supply/cable

Connect by using the attached motor cable. Connections of motor to driver, driver signal and driver power supply are connector connection. Plug or unplug the connector under the condition of the power supply turned off.



● Driver power supply (CN1)

Pin No.	Signal	Specifications/Description
1 (RD)	Vcc	DC24V ± 10%
2 (BK)	GND	Power supply GND

Mating connector : JAE IL -G-2S-S3C2-SA

● Motor (CN2)

Pin No.	Signal	Pin No.	Signal
1 (BK)	A_COM	4 (OR)	/A Phase
2 (WT)	B_COM	5 (RD)	B Phase
3 (BN)	A Phase	6 (YL)	/B Phase

Mating connector : JAE IL -G-6S-S3C2-SA

● Driver Signal (CN3)

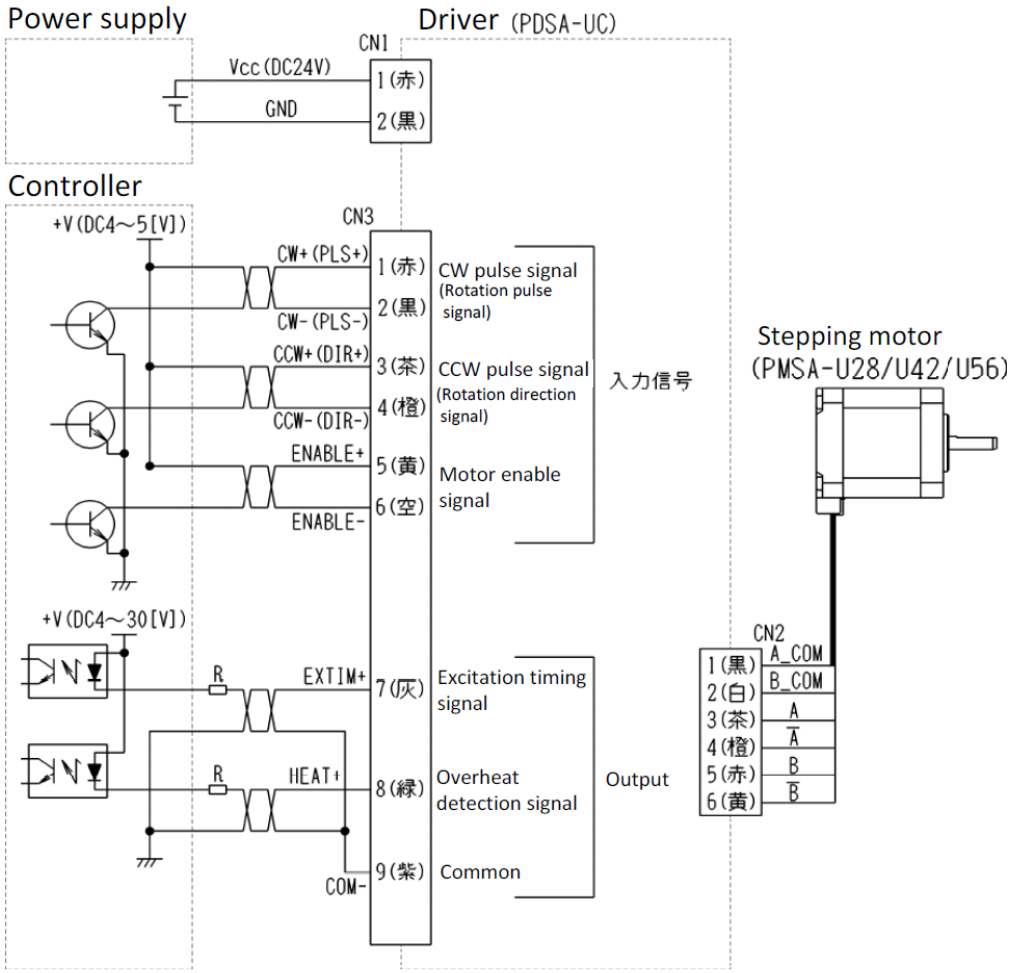
Pin No.	Signal	Function	Specifications/Description
1 (RD)	CW + (PLS +)	CW Pulse signal (Pulse signal)	・2 pulse input mode : CW pulse signal input ・1 pulse input mode : Pulse signal input
2 (BK)	CW - (PLS -)		
3 (BN)	CCW + (DIR +)	CCW Pulse signal (Pulse signal)	・2 pulse input mode : CCW pulse signal input ・1 pulse input mode : Direction signal input
4 (OR)	CCW - (DIR -)		
5 (YL)	ENABLE +	Motor enable signal	・Motor current enable signal input OFF : Current enable OnF : Current disable
6 (SK)	ENABLE -		
7 (GR)	EXTIM (+)	Excitation timing signal	L level signal outputs when the motor rotor position is in excitation home position.
8 (GR)	HEAT (+)	Overheat detection signal	Heat warning (Over 70 deg. C at case inside)
9 (VT)	COM (-)	Common	Using as common of the excitation home position output signal/overheat output

* Bracket () after pin number shows cable color.
* "Off" in chart shows photocoupler off condition and "On" in chart shows photocoupler on condition respectively.
(Mating connector: JAE IL-G-9S-S3C2-SA)

○ Be sure to confirm the direction of connector and plug securely.
Improper connection may cause unexpected motor malfunctions or motor damages.
○ Unplug connector with pushing down the lock part.
○ Use the cable as short as possible and do not wind or bundle the remainders.
○ Excessive cable length may cause maximum input frequency down.
○ Shield motor cable with conductive property tape or wire mesh in case of noise problem by cable.

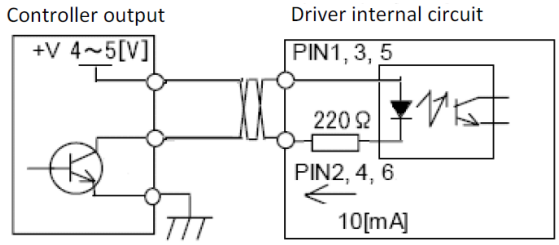
Connection with other Peripherals

Plug or unplug the connector under the condition of the power supply turned off.
Improper connection may cause property damages.



● Connection example PDSA-UC drive internal circuit to controller

○ Input signal circuit example to motor driver
[CW+(PLS+)/CW-(PLS-)/CCW+(DIR+)/CCW-(DIR-)/ENABLE+/ENABLE-)



* Do not apply over DC +5V to +V.
It may cause photocoupler damages

○ Output signal circuit example [EXTIM+/HEAT+/COM- signal)