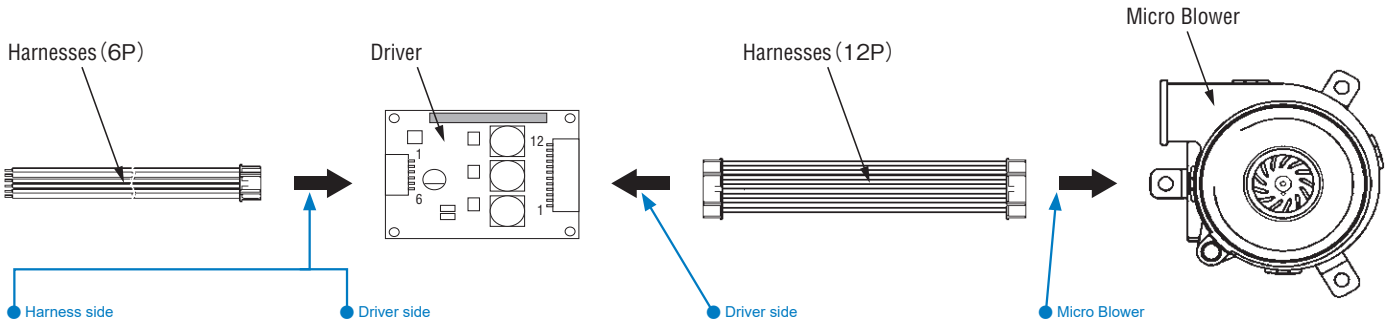
CONNECTION
MICRO BLOWERS

Please connect the Micro Blower,the Driver and the Harnesses as follows.

■ TF037C,E,F



● Harness side

Pin No.	Wire Color	Symbol	Signal
1	Brown	Error	Error Output
2	Red	FG	Rotational Speed Signal Output
3	Orange	BR	Short brake Input
4	Yellow	CNT	Control Voltage Input
5	Green	Vcc	Power Supply Voltage Input
6	Blue	GND	GND

● Driver side

Pin No.	Symbol	Signal
1	Error	Error Output L = Undetected H = Detection CMOS Output(0 ~ 5V)
2	FG	Rotational Speed Signal Output 12 pulse / rev. Open Collector Output (Max. Voltage) : 10V (Max. Output Current) : 10mA
3	BR	Short Brake L = Brake Off H = Brake On (TTL Input(0 ~ 5V))
4	CNT	Control Voltage Input (Standby Input Voltage) : 0V (Operation Input Voltage) : 1 ~ 5V
5	Vcc	DC24V±10% Power Supply Voltage Input
6	GND	GND

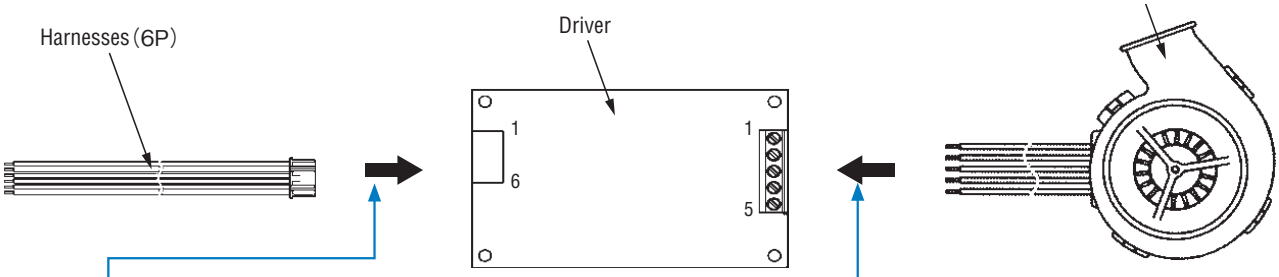
● Driver side

Signal	Symbol	Pin No.
+12V Hall Element Power Supply	Vcc	12
Hall Element 2 Output	H2-	11
	H2+	10
Hall Element 3 Output	H3-	9
	H3+	8
Hall Element 1 Output	H1-	7
	H1+	6
GND	GND	5
Thermistor Output	TH	4
Motor Coil (V)	V	3
Motor Coil (W)	W	2
Motor Coil (U)	U	1

● Micro Blower

Pin No.	Symbol	Signal
1	Vcc	+12V Hall Element Power Supply
2	H2-	Hall Element 2 Output
3	H2+	
4	H3-	Hall Element 3 Output
5	H3+	
6	H1-	Hall Element 1 Output
7	H1+	
8	GND	GND
9	TH	Thermistor Output
10	V	Motor Coil (V)
11	W	Motor Coil (W)
12	U	Motor Coil (U)

■ TF029B



● Harness side

Pin No.	Wire Color	Symbol	Signal
1	Brown	Error	Error Output
2	Red	FG	Rotational Speed Signal Output
3	Orange	BR	Short brake Input
4	Yellow	CNT	Control Voltage Input
5	Green	Vcc	Power Supply Voltage Input
6	Blue	GND	GND

● Driver side

Pin No.	Symbol	Signal
1	Error	Error Output Low= Detection High=Undetected Open Collector Output (Max. Voltage : 10V Max. Current : 10mA)
2	FG	Rotational Speed Signal Output Open Collector Output (Max. Voltage : 10V Max Current : 10mA) FG signal 1 pulse = 10rev
3	NC	Not Connected
4	CNT	Control Voltage Input Input voltage range (-0.5~ 5.5V) Valid control voltage (0.5~ 4.5V)
5	VIN	DC24V±10% Power Supply Voltage Input
6	GND	GND

● Driver side

Signal	Symbol	Pin No.
Thermistor Output (+)	TH(+)	1
Thermistor Output (−)	TH(-)	2
Motor Coil (W)	W	3
Motor Coil (V)	V	4
Motor Coil (U)	U	5

● Micro Blower

Pin No.	Symbol	Wire Color	Signal
1	TH(+)	Green	Thermistor Output
2	TH(-)	Yellow	Thermistor Output
3	W	Orange	Motor Coil (W)
4	V	Red	Motor Coil (V)
5	U	Brown	Motor Coil (U)