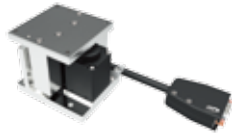


Standard Motorized Stage – 6-Axis Assembly Application Explanation (Axis & Stroke)



AXG6-80CS
(α -Axis stroke : $\pm 7^\circ$)
(Repeatability accuracy : $\pm 0.05^\circ$)



AZV6008-F
(Z-Axis stroke : 8mm)
(Repeatability accuracy : $\pm 5\mu\text{m}$)



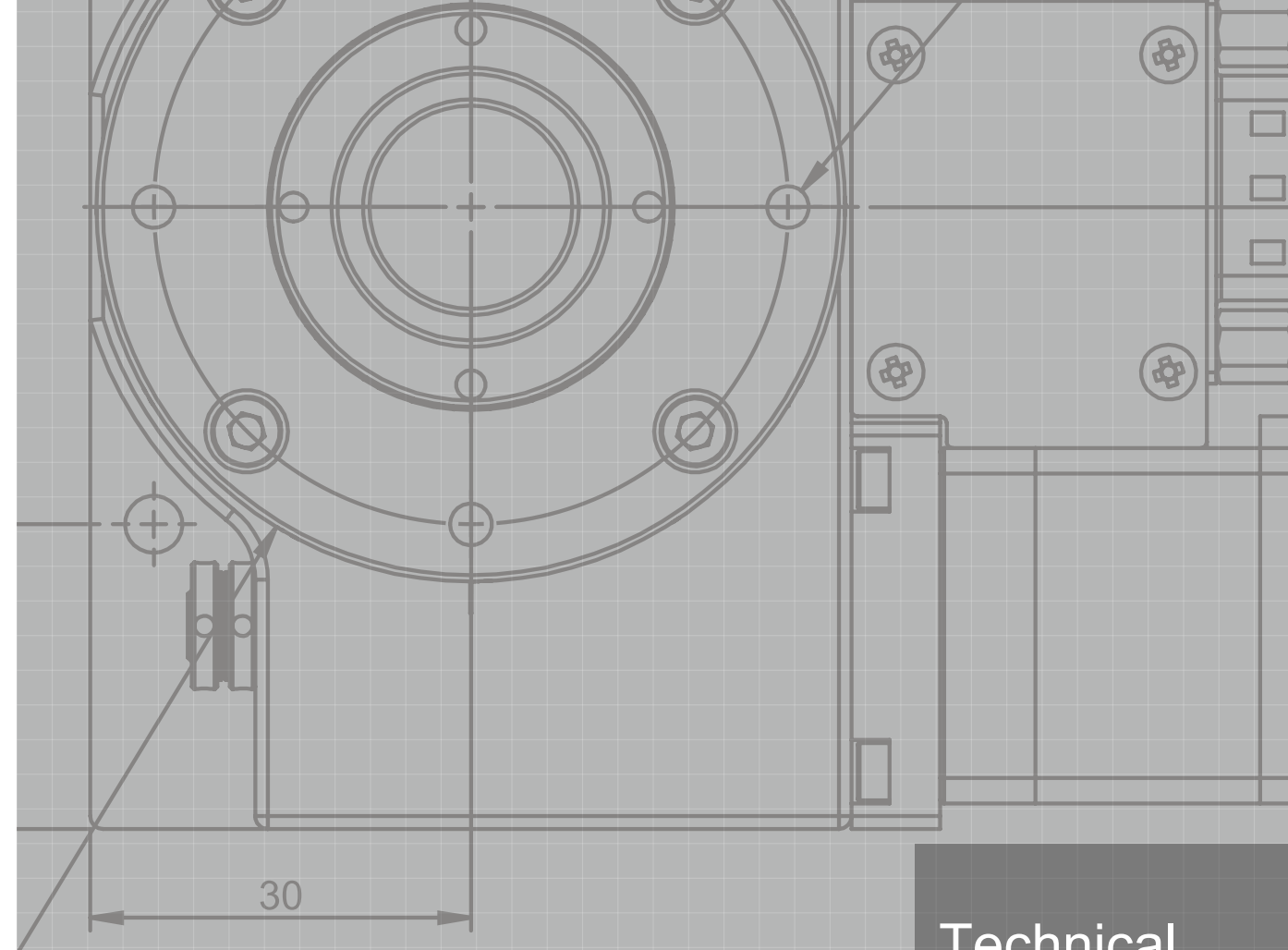
AR59-A3N
($\theta=360^\circ$)
(Repeatability accuracy : $\pm 0.05^\circ$)



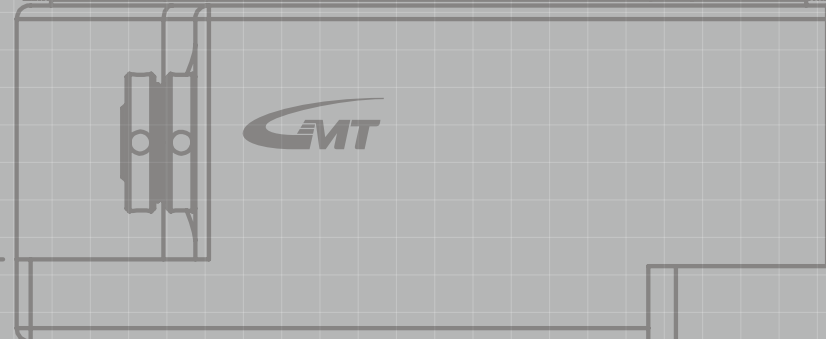
AY60-F
(XY-Axis stroke : 15mm)
(Single movement accuracy : $15\mu\text{m}$)
(Repeatability accuracy : $\pm 1\mu\text{m}$)



AXG6-80CS
(α -Axis stroke : $\pm 7^\circ$)
(Repeatability accuracy : $\pm 0.05^\circ$)

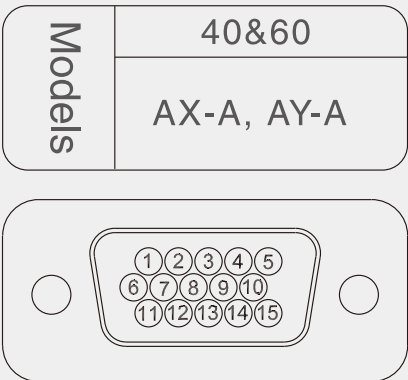


Technical
Information
**Standard
Motorized
Stages**

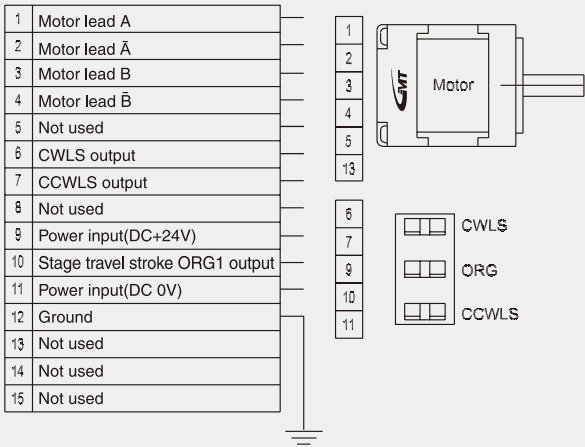


Electrical Specifications

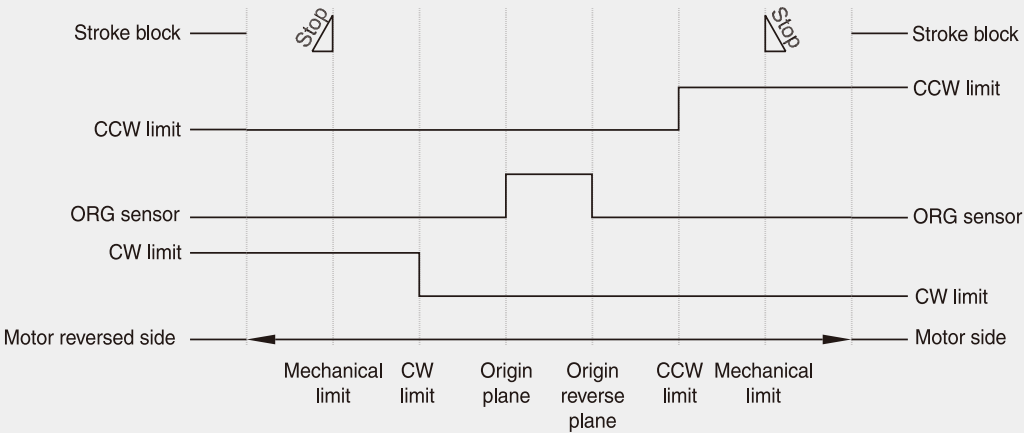
Male End Connector
PIN Layout & Definition



Wiring Diagram

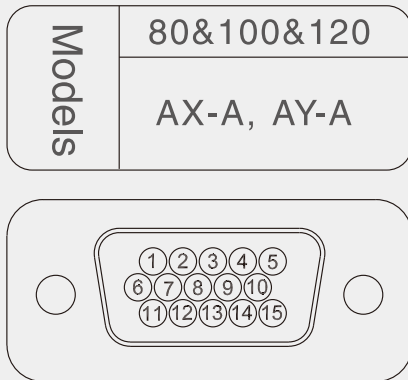


Sequence Diagram

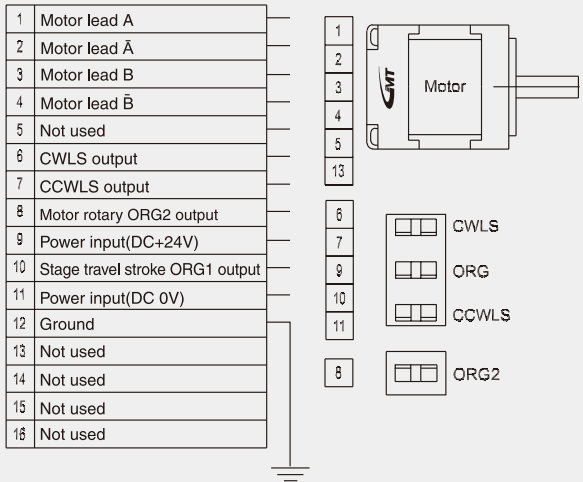


Electrical Specifications

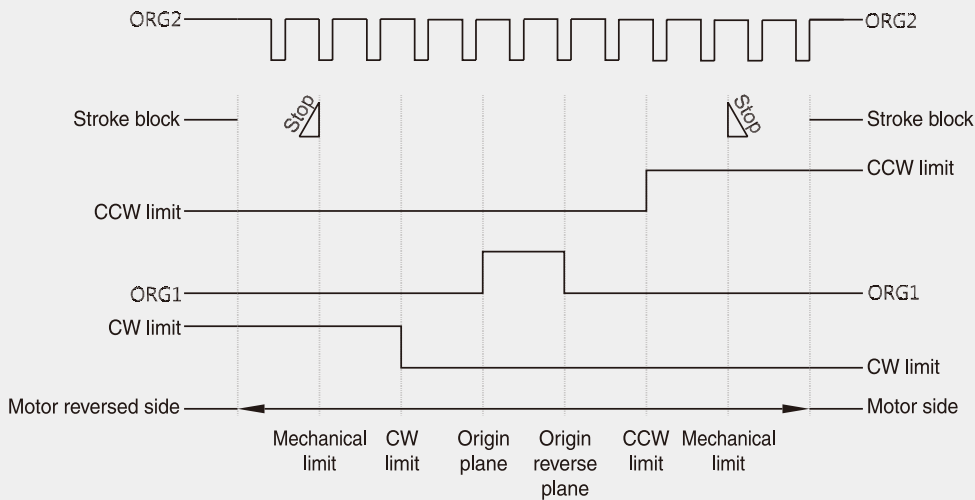
Male End Connector
PIN Layout & Definition



Wiring Diagram

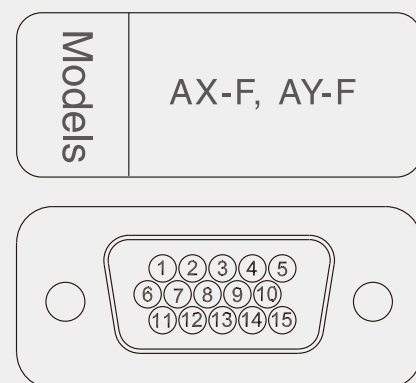


Sequence Diagram

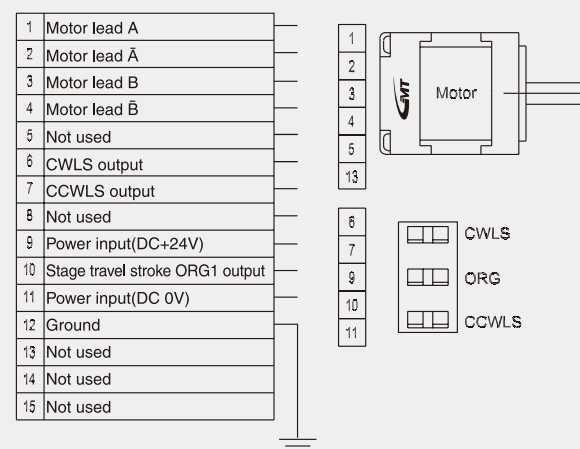


Electrical Specifications

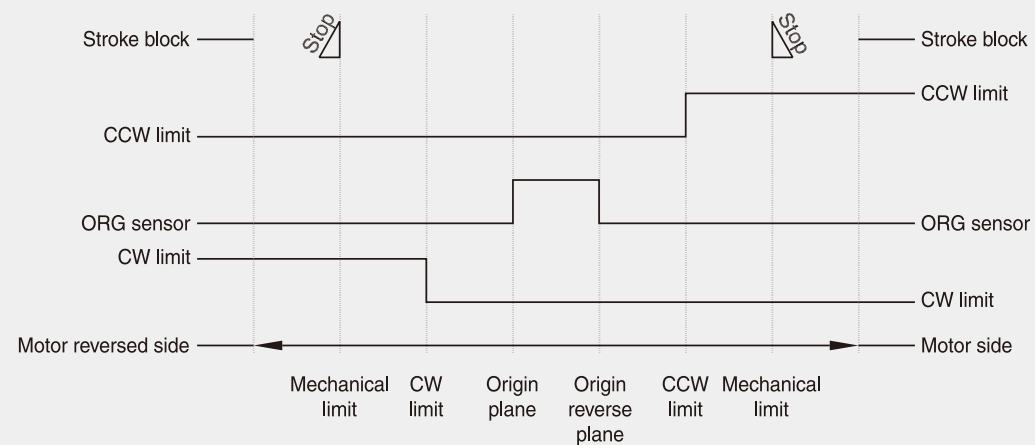
Male End Connector PIN Layout & Definition



Wiring Diagram

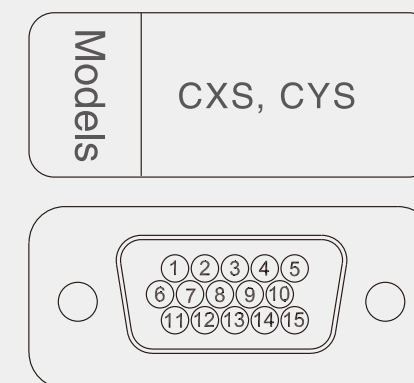


Sequence Diagram

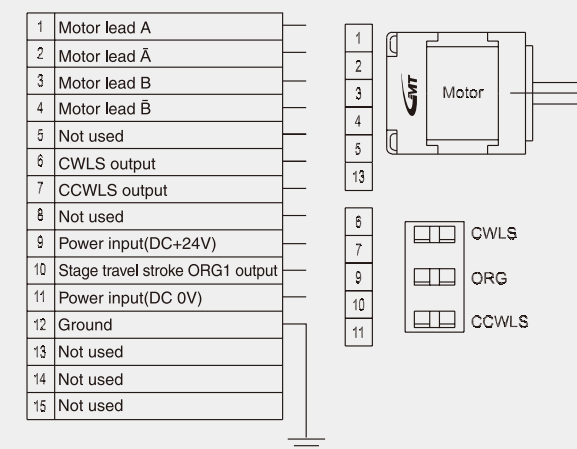


Electrical Specifications

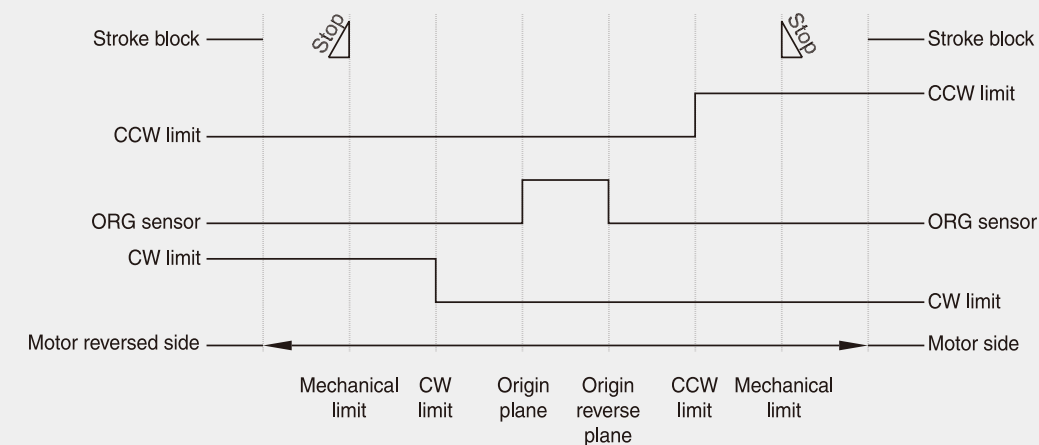
Male End Connector PIN Layout & Definition



Wiring Diagram

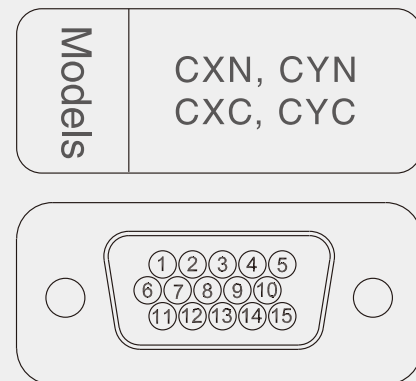


Sequence Diagram

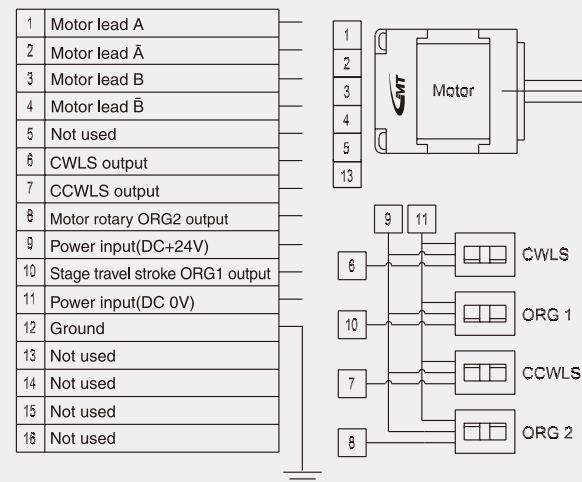


Electrical Specifications

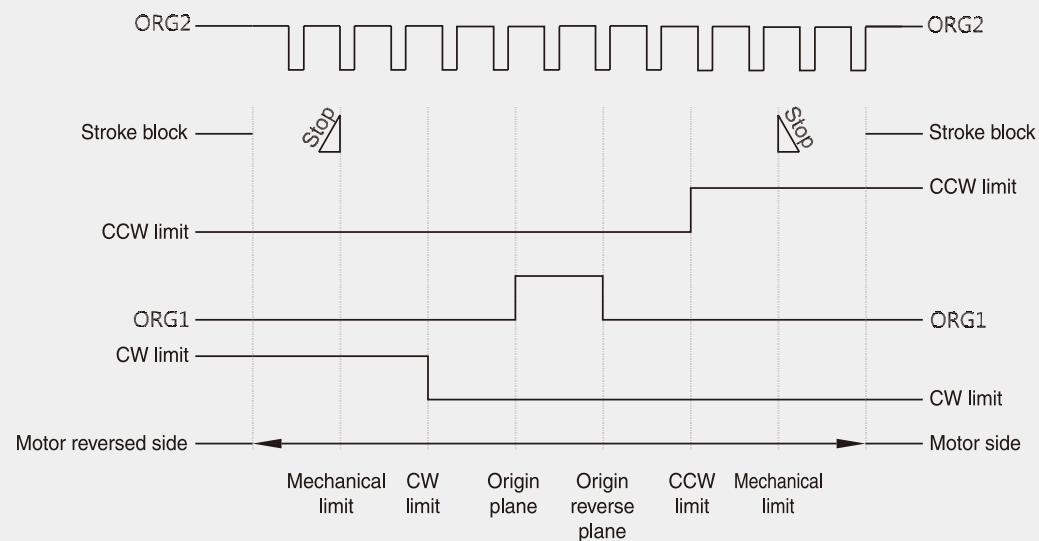
Male End Connector PIN Layout & Definition



Wiring Diagram

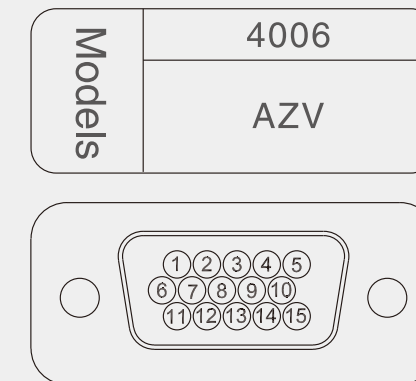


Sequence Diagram

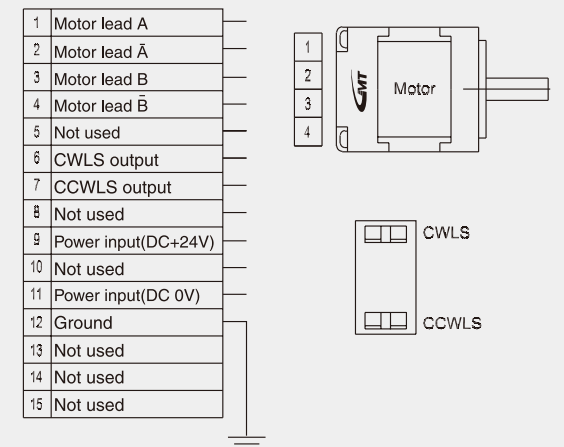


Electrical Specifications

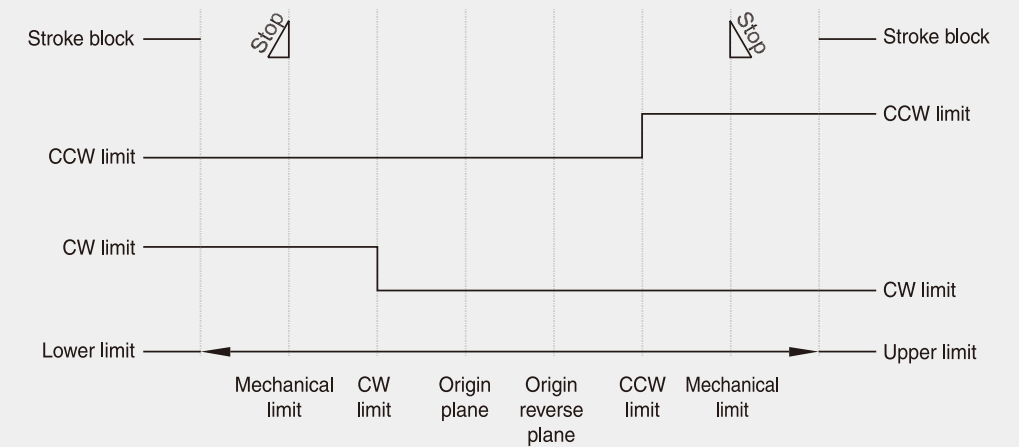
Male End Connector PIN Layout & Definition



Wiring Diagram

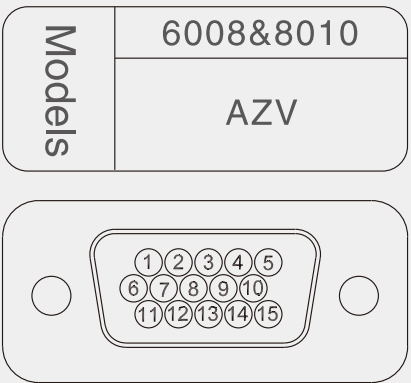


Sequence Diagram

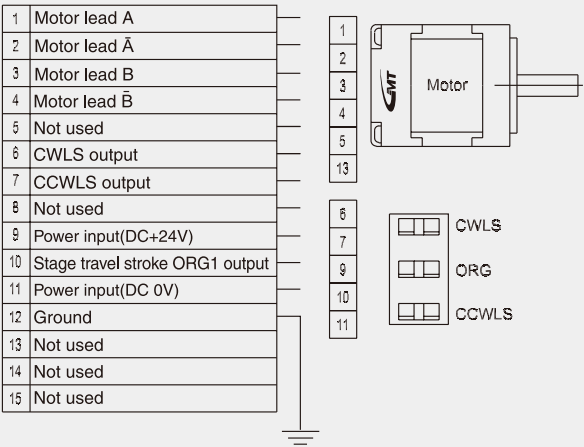


Electrical Specifications

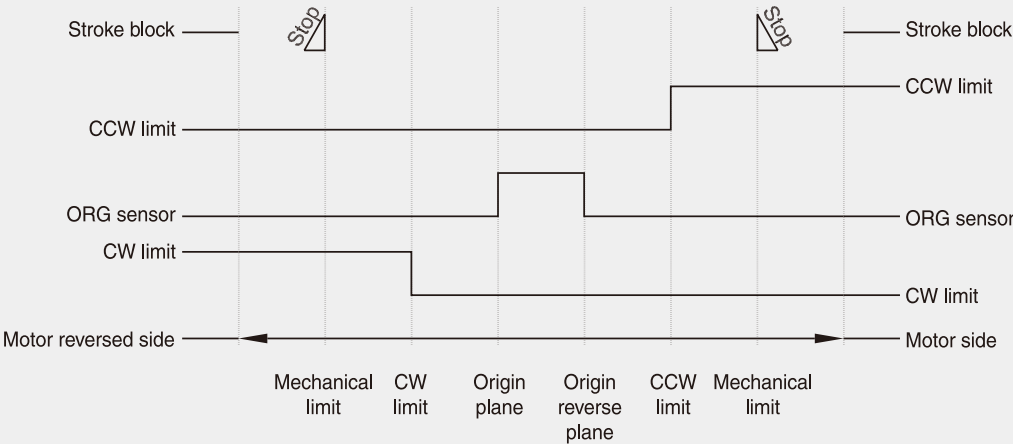
Male End Connector
PIN Layout & Definition



Wiring Diagram

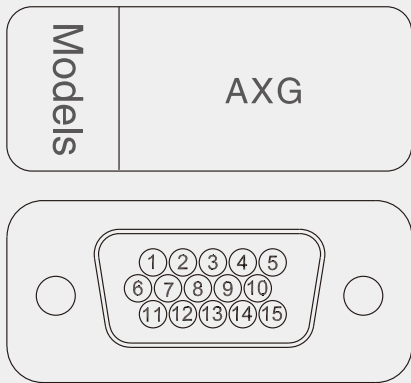


Sequence Diagram

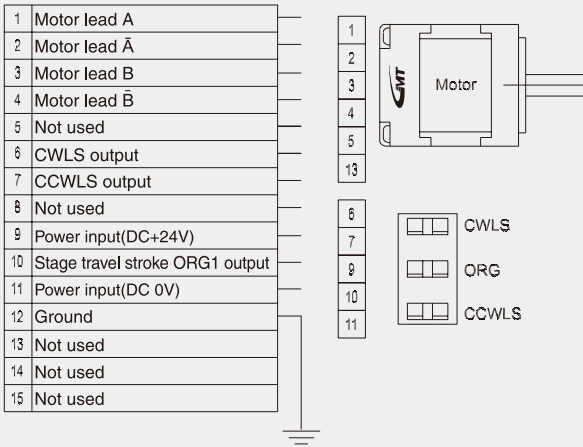


Electrical Specifications

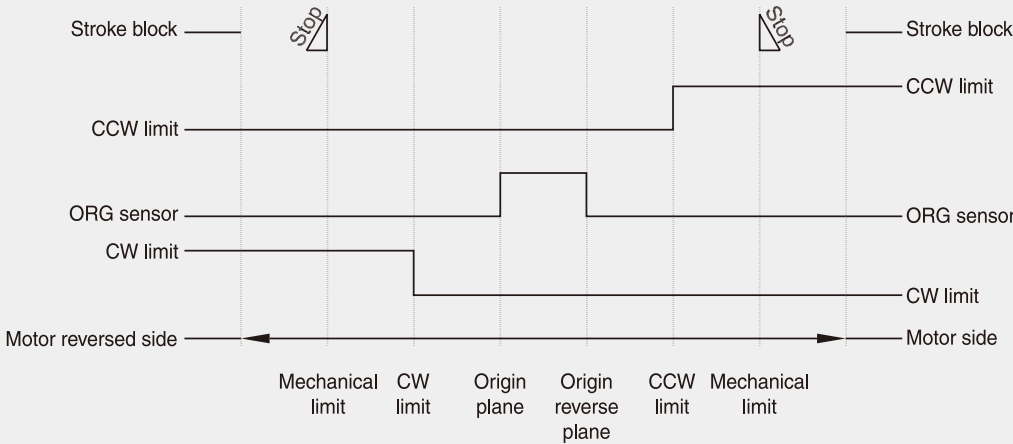
Male End Connector
PIN Layout & Definition



Wiring Diagram

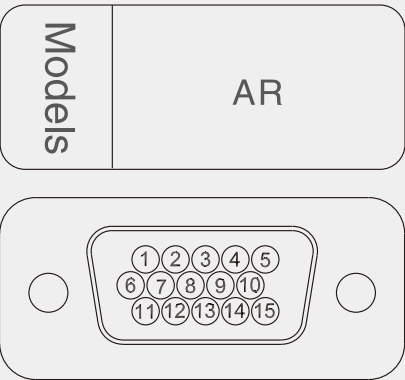


Sequence Diagram

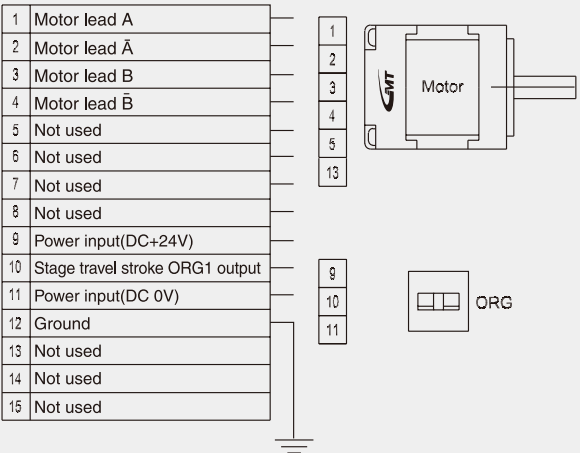


Electrical Specifications

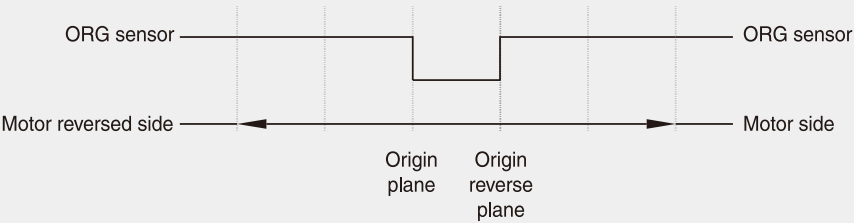
Male End Connector
PIN Layout & Definition



Wiring Diagram



Sequence Diagram



2-Phase Stepper Motor / Driver Comparison Table

Standard Equipped	Motor Type / Shaft Type	2-Phase Stepper Motor / Double Shaft			
	Equipped Motor Classification	A Group	B Group	C Group	D Group
	Motor Manufacturer	GMT			
	Motor Models	2MS-N28D32A	2MS-N28D45A	2MS-N35D36A	2MS-N42D47A
	Rated Current	0.67A		1.0A	1.68A
	Size	□28x31.3(NEMA11)	□28x45(NEMA11)	□35x36(NEMA14)	□42x47(NEMA17)
	Step Angle	1.8°			
	Magnetizing Maximum Static Torque	0.06 N・m	0.09 N・m	0.14 N・m	0.43 N・m
	Rotor Inertia (Kg・m²)	0.009×10 ⁻⁴	0.12×10 ⁻⁴	1.4×10 ⁻⁴	6.8×10 ⁻⁴
	Driver Manufacture	GMT / GTR22G-D			
Driver Model	GMT / DS2-022A			GMT / DS2-032A	
Recommended	Motor Manufacturer	Oriental motor			
	Motor Models	PKP223D15B2	PKP225D15B2	PKP233D23B	PKP245D23B
	Rated Current	1.5A		2.3A	
	Size	□28x32(NEMA11)	□28x51.5(NEMA11)	□35x37(NEMA14)	□42x47(NEMA17)
	Step Angle	1.8°			
	Magnetizing Maximum Static Torque	0.095N・m	0.19 N・m	0.2 N・m	0.58 N・m
	Rotor Inertia (Kg・m²)	9×10 ⁻⁷	18×10 ⁻⁷	24×10 ⁻³	83×10 ⁻³
	Driver Manufacture (optional)	Oriental motor			
	Driver Model (optional)	CVD215-K	CVD215-K	CVD223-K	CVD223-K
Recommended	Motor Manufacturer	SANYO motor			
	Motor Models	SH2281-5231	SH2285-5231	SH3537-12U10	103H5210-0410
	Rated Current	1A		1.2A	
	Size	□28X32	□28X51.5	□35X37	□42X48
	Step Angle	1.8°			
	Magnetizing Maximum Static Torque	0.07 N・m	0.145 N・m	0.15 N・m	0.37 N・m
	Rotor Inertia (Kg・m²)	0.01×10 ⁻⁴	0.022×10 ⁻⁴	0.025×10 ⁻⁴	0.074×10 ⁻⁴
	Driver Manufacture (optional)	GMT			
	Driver Model (optional)	GTR24M3			
Applicable Platform (Only List Single-Axis Model)		AR39-A3N	AR80-A3N	AR100-A3N	AX80-A2N
		AR59-A3N	CXN50100-S2N	AXG6-35CS	AX100-A2N
		AX40-A2N	CXN50150-S2N	AXG6-60CS	AX120-A2N
		AX60-A2N	CXN50200-S2N	AXG6-80CS	
		AX40-F2N	CXN60100-S2N		
		AX60-F2N	CXN60150-S2N		
		AX80-F2N	CXN60200-S2N		
		AZ4006-F	CXN60250-S2N		
		AZ6008-F	CXN60300-S2N		
		AZ8010-F	CXN80100-S2N		
		CXS5020-S2N	CXN80150-S2N		
		CXS5030-S2N	CXN80200-S2N		
		CXS6020-S2N	CXN80250-S2N		
		CXS6030-S2N	CXN80300-S2N		
		CXS6050-S2N			
		CXS8020-S2N			
		CXS8030-S2N			
		CXS8050-S2N			
		CXN5030-S2N			
		CXN5050-S2N			
		CXN5075-S2N			
		CXN6030-S2N			
		CXN6050-S2N			
		CXN6075-S2N			
		CXN8030-S2N			
		CXN8050-S2N			
		CXN8075-S2N			

※ 2-phase stepper motor is the specification selected in standard grade, and Japanese stepper motor is listed as reference only.

※ The most preferred driver is recommended to be specified by GMT as considerations.

5-Phase Stepper Motor / Driver Comparison Table

Standard Equipped	Motor Manufacturer	5-Phase Stepper Motor / Double Shaft			
	Equipped Motor Classification	A Group	B Group	C Group	D Group
	Motor Manufacturer	Oriental motor			
	Motor Models	PKP523N12B	PKP525N12B	N / A	PKP554N18B
	Rated Current	1.2A			1.8A
	Size	□28x32	□28x51.5		□42X39
	Step Angle	0.72°			0.72°
	Magnetizing Maximum Static Torque	0.052 N・m	0.091 N・m		0.26 N・m
	Rotor Inertia (Kg•m ²)	0.009×10 ⁻⁴	0.018×10 ⁻⁴		0.057×10 ⁻⁴
	Driver Manufacture (optional)	Oriental motor			Oriental motor
Driver Model (optional)	CVD512-K			CVD518-K	
Recommended	Motor Manufacturer	SANYO motor			
	Motor Models	103F5510-8211	103F5505-8211	103F5505-8211	103F5505-8211
	Rated Current	0.75A			1.4A
	Size	□42x49	□42x34	□42x34	□42x34
	Step Angle	0.72°		0.36°	0.72°
	Magnetizing Maximum Static Torque	0.37 N・m	0.2 N・m	0.2 N・m	0.2 N・m
	Rotor Inertia (Kg•m ²)	0.074×10 ⁻⁴	0.035×10 ⁻⁴	0.035×10 ⁻⁴	0.035×10 ⁻⁴
	Driver Manufacture (optional)	TOHAN / GTD-5D14C			
Driver Model (optional)	GMT / GTR515B				
Applicable Platform (Only List Single-Axis Model)		AR39-A3N	AR80-A3N	AR100-A3N	AX80-A2N
		AR59-A3N	CXN50100-S2N	AXG6-35CS	AX100-A2N
		AX40-A2N	CXN50150-S2N	AXG6-60CS	AX120-A2N
		AX60-A2N	CXN50200-S2N	AXG6-80CS	
		AX40-F2N	CXN60100-S2N		
		AX60-F2N	CXN60150-S2N		
		AX80-F2N	CXN60200-S2N		
		AZ4006-F	CXN60250-S2N		
		AZ6008-F	CXN60300-S2N		
		AZ8010-F	CXN80100-S2N		
		CXS5020-S2N	CXN80150-S2N		
		CXS5030-S2N	CXN80200-S2N		
		CXS6020-S2N	CXN80250-S2N		
		CXS6030-S2N	CXN80300-S2N		
		CXS6050-S2N			
		CXS8020-S2N			
		CXS8030-S2N			
		CXS8050-S2N			
		CXN5030-S2N			
		CXN5050-S2N			
		CXN5075-S2N			
		CXN6030-S2N			
		CXN6050-S2N			
		CXN6075-S2N			
		CXN8030-S2N			
		CXN8050-S2N			
		CXN8075-S2N			

※ Stepper motor of Japanese brand is alternative specification suggested for standard grade motorized stage optional reference only.

※ The most preferred driver is recommended to be specified by GMT as considerations. For different needs, please choose the suitable driver based on real functional needs.

※ The motorized stage performance might not meet specified on the catalogue.