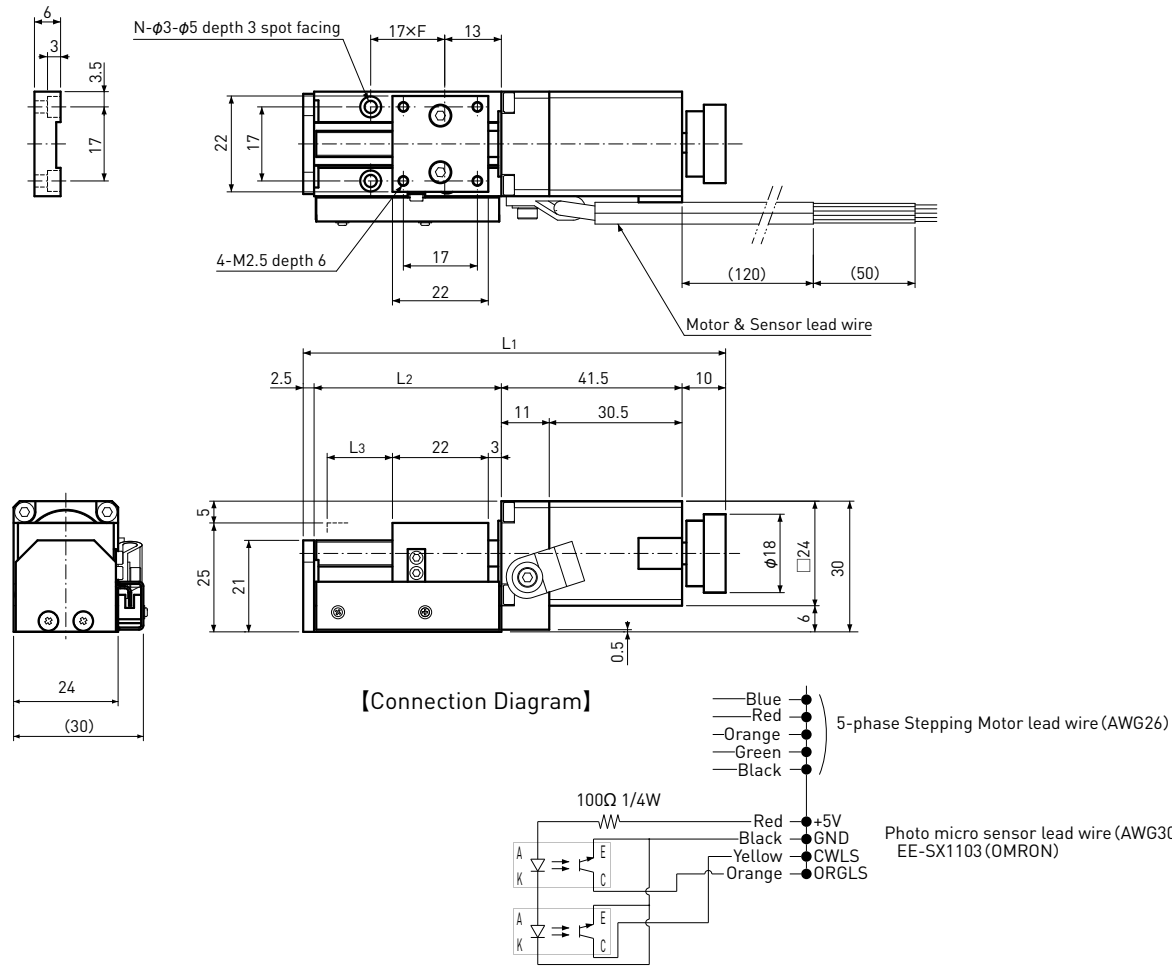


Standard style of MAS series

Drive Ball Screw + 5-phase Stepping Motor

# MAS□24 / MAS NEMA 11

Shaft dia.  $\phi 6$



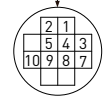
**[Connector choice].**

Please designate connector type below.  
 No connector if there is no designation.

- 1) None (Bare)
- 2) RP17-13J-12SC (HIROSE)
- 3) EI-Connector (TE connectivity : 172211-6 pins for Motor + 172211-4 pins for Sensor)

**[HIROSE RP-Connector]**

Upper side (white dot)



RP17-13J-12SC (female)

1	Stepping Motor (Blue)
2	Stepping Motor (Red)
3	Stepping Motor (Orange)
4	Stepping Motor (Green)
5	Stepping Motor (Black)
6	None
7	5V (Red)
8	GND (Black)
9	CWLS Sensor (Yellow)
10	ORGLS Sensor (orange)
11	None
12	None

**[EI-Connector]**



172211-6 (male)

1	Stepping Motor (Blue)
2	Stepping Motor (Red)
3	Stepping Motor (Orange)
4	Stepping Motor (Green)
5	Stepping Motor (Black)
6	None



172211-4 (male)

1	5V (Red)
2	GND (Black)
3	CWLS Sensor (Yellow)
4	ORGLS Sensor (Orange)

Common Specifications	
Motor	5-phase Stepping Motor □24, 0.75A / phase
Body Material	Aluminum
Sliding guide	Slide Guide rail(Single)
Photo Sensor (Motor side & travel end)	Omron : EE-SX1103 ※Light-on
Permissible Moment	
Pitching Mp	0.16Nm
Yawing My	0.10Nm
Rolling Mr	0.20Nm
Lubrication	
MSG No.2(KSS original Grease) **Sumitec Liquid H20 for Resin Lead Screw	
Operating Temp.	
0~40°C **No due condensation	

Model Number	Drive Screw type	Travel (mm)	Screw Lead (mm)	Resolution (mm)	Length (mm)					Repeatability max. (mm)	Lost Motion max. (mm)	Load Capacity max. (N/kgf)		Maximum Acceleration (m/sec <sup>2</sup> )	Permissible speed (mm/sec)	Mass (g)	Model Number	
					L1	L2	L3	F	N			Hor.	Vert.					
MAS-G010-015NR	Precision Ball Screw	15	1	0.002	97	43	15	1	4	±0.005	0.005	29.4/3.0	19.6/2.0	0.1	0.4~20	200	MAS-G010-015NR	
MAS-R010-015NR	Rolled Ball Screw		1	0.002	97	43	15	1	4	±0.01	0.01	29.4/3.0	19.6/2.0	0.1	0.4~20	200	MAS-R010-015NR	
MAS-Re020-015NR	Resin Lead Screw		2	0.004	0.004	97	43	15	1	4	±0.05	0.05	9.8/1.0	4.9/0.5	0.1	0.8~15	200	MAS-Re020-015NR
MAS-G010-030NR	Precision Ball Screw	30	1	0.002	112	58	30	2	6	±0.005	0.005	29.4/3.0	19.6/2.0	0.1	0.4~20	210	MAS-G010-030NR	
MAS-R010-030NR	Rolled Ball Screw		1	0.002	0.002	112	58	30	2	6	±0.01	0.01	29.4/3.0	19.6/2.0	0.1	0.4~20	210	MAS-R010-030NR
MAS-Re020-030NR	Resin Lead Screw		2	0.004	0.004	112	58	30	2	6	±0.05	0.05	9.8/1.0	4.9/0.5	0.1	0.8~15	210	MAS-Re020-030NR

Note 1) Model Number above is for no-connector and lead wire is set on right side on Motor.  
 Note 2) Permissible moment is based on no load in other direction.  
 Note 3) Dimension above is our model case, if you need special specifications, please ask KSS representative.  
 Note 4) Refer to page Q131 for connection diagrams of recommended Driver (KR-A5CC, KR-A55MC).  
 Note 5) Please refer to Technical Description page S106 for the Datum clamp face of the Actuator.