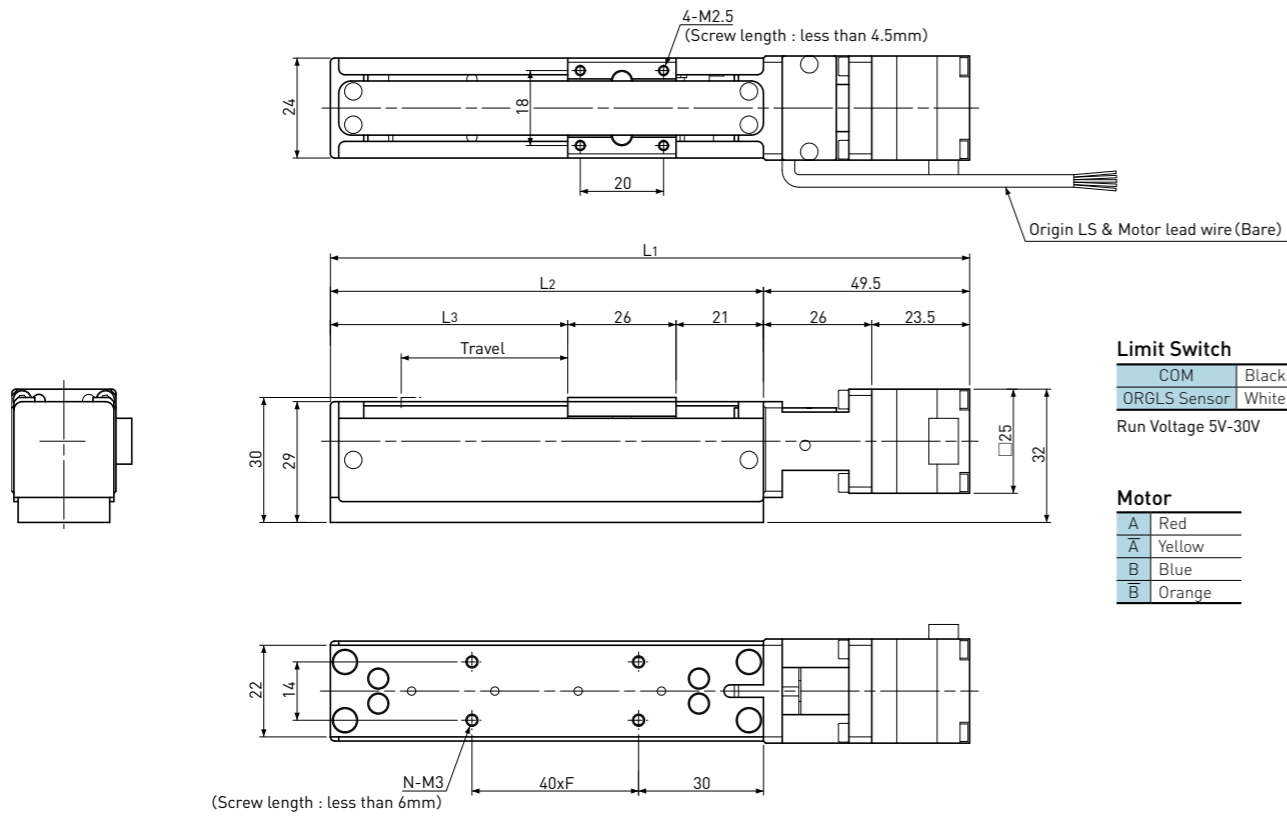


Flex Actuator

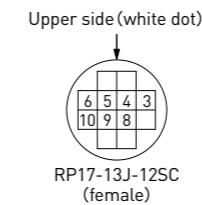
2-phase Stepping Motor (Bi-polar 0.7A / phase & □25) with Precision Ball Screw type Actuator



Motor Model : 10PM-K202B (Single shaft)
Minebea Motor
Driver recommendation : SD4030B3

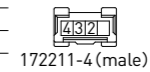
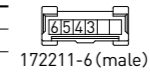
Connector choice

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 RP17 Connector

1	None
2	None
3	Stepping Motor A (Red)
4	Stepping Motor A̅ (Yellow)
5	Stepping Motor B (Blue)
6	Stepping Motor B̅ (Orange)
7	None
8	COM (Black)
9	Short circuit with No.8
10	ORGLS Sensor NC (White)
11	None
12	None



EI Connector

1	None
2	None
3	Stepping Motor A (Red)
4	Stepping Motor A̅ (Yellow)
5	Stepping Motor B (Blue)
6	Stepping Motor B̅ (Orange)
7	None
8	COM (Black)
9	Short circuit with No.8
10	ORGLS Sensor NC (White)
11	None
12	None

Note

- 1) There should be no condensation when using.
- 2) Permissible Moment is the number when no load in other direction.
- 3) Resolution represents the values for full step.
- 4) Model number is for no-connector and lead wire is set on right side on Motor.
- 5) Vibration may increase at low speed or zero return.

Model Number	Travel (mm)	Screw Lead (mm)	Resolution (μm)	Length (mm)					Max. Load Capacity (N)		Permissible speed (mm / sec)	Max. Acceleration (m / sec ²)	Mass (g)
				L ₁	L ₂	L ₃	F	N	Hor.	Vert.			
FAS-G010-020MNR	20	1	5	133.5	84	37	1	4	29.4	19.6	3 ~ 20	0.1	210
FAS-G010-040MNR	40	1	5	153.5	104	57	1	4	29.4	19.6	3 ~ 20	0.1	230
FAS-G020-040MNR		2	10						29.4	19.6	6 ~ 40	0.2	
FAS-G060-040MNR		6	30						19.6	2.94	18 ~ 120	0.6	
FAS-G100-040MNR		10	50						19.6	2.94	30 ~ 200	1.0	
FAS-G010-080MNR	80	1	5	193.5	144	97	2	6	29.4	19.6	3 ~ 20	0.1	275
FAS-G020-080MNR		2	10						29.4	19.6	6 ~ 40	0.2	
FAS-G060-080MNR		6	30						19.6	2.94	18 ~ 120	0.6	
FAS-G100-080MNR		10	50						19.6	2.94	30 ~ 200	1.0	
FAS-G060-120MNR	120	6	30	233.5	184	137	3	8	19.6	2.94	18 ~ 120	0.6	315
FAS-G100-120MNR		10	50						19.6	2.94	30 ~ 200	1.0	
FAS-G060-160MNR	160	6	30	273.5	224	177	4	10	19.6	2.94	18 ~ 120	0.6	360
FAS-G100-160MNR		10	50						19.6	2.94	30 ~ 200	1.0	
FAS-G060-200MNR	200	6	30	313.5	264	217	5	12	19.6	2.94	18 ~ 120	0.6	400
FAS-G100-200MNR		10	50						19.6	2.94	30 ~ 200	1.0	

Note) Refer to page Q129 for connection diagram of recommended Driver (SD4030B3).
Please refer to Technical Description page S106 for the Datum clamp face of the Actuator.

Common Specifications	
Repeatability	Max. ±0.005mm
Lost Motion	Max. 0.005 mm
Body Material	Aluminum
Sliding guide	Slide Guide rail
Sensor	Limit switch
Accuracy of Zero pt. return	Max. ±0.01mm
Permissible Moment	
Pitching Mp	0.10Nm
Yawing My	0.09Nm
Rolling Mr	0.23Nm
Lubrication	Grease MSG No.2 (KSS)
Operating Temp.	0 ~ 40°C