

Standard style of CAS series

Rollled Ball Screw + 2-phase Stepping Motor

CAS □ 14 / CAS NEMA 6

Shaft dia. $\phi 4$

Motor Model : SH2141-5511 (Double Shaft)

Sanyo Denki

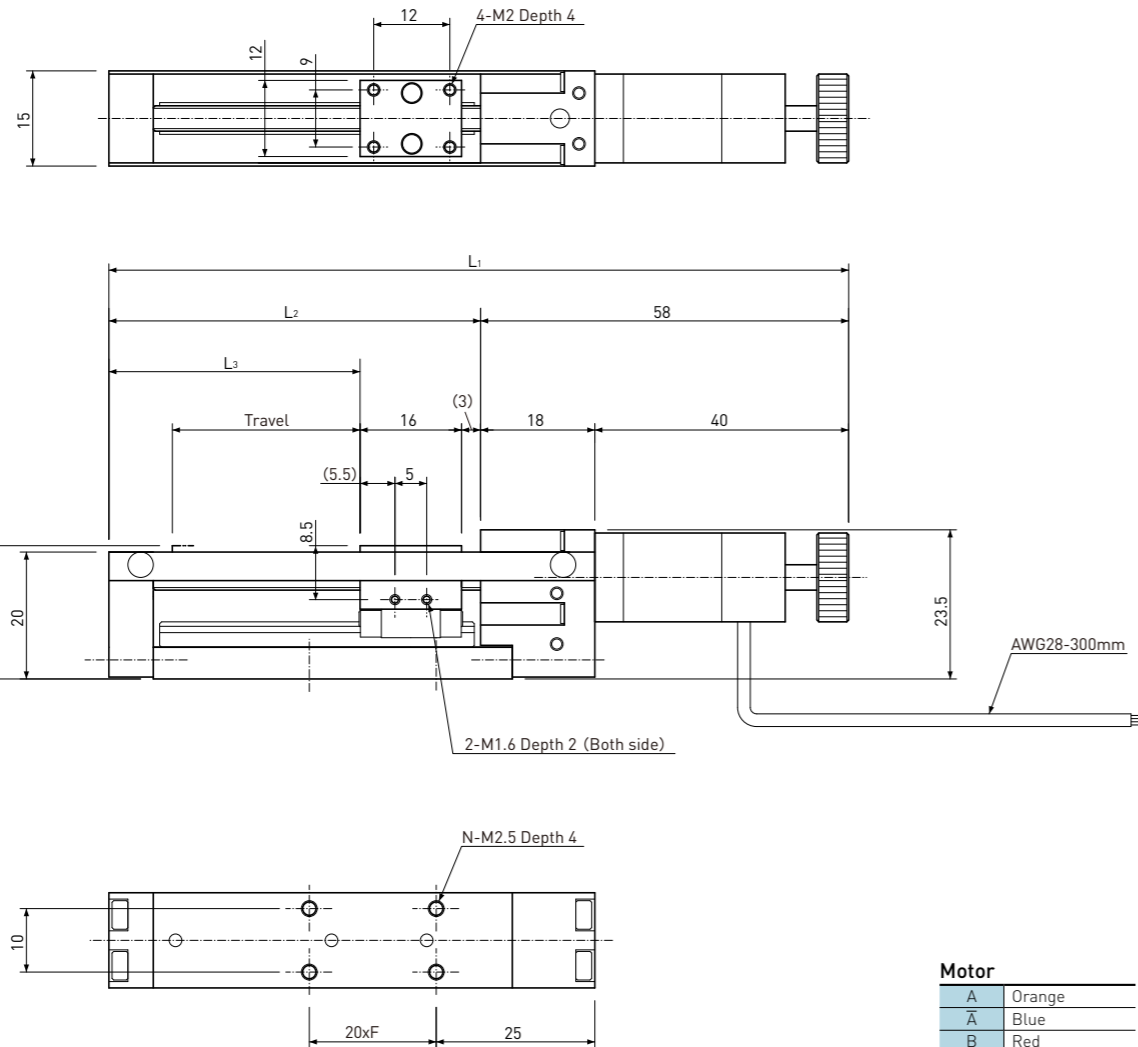
Driver recommendation : SD4015B3

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



Motor	
A	Orange
\bar{A}	Blue
B	Red
\bar{B}	Yellow

HIROSE RP17 Connector

Upper side (white dot)

1	None
2	None
3	Stepping Motor A (Orange)
4	Stepping Motor \bar{A} (Blue)
5	Stepping Motor B (Red)
6	Stepping Motor \bar{B} (Yellow)
7	None
8	None
9	None
10	None
11	None
12	None

RP17-13J-12SC (female)

EI Connector

1	None
2	None
3	Stepping Motor A (Orange)
4	Stepping Motor \bar{A} (Blue)
5	Stepping Motor B (Red)
6	Stepping Motor \bar{B} (Yellow)

172211-6 (male)

When Sensor option is selected

Upper side (white dot)

1	None
2	None
3	Stepping Motor A (Orange)
4	Stepping Motor \bar{A} (Blue)
5	Stepping Motor B (Red)
6	Stepping Motor \bar{B} (Yellow)
7	+5~24V (Blown)
8	COM (Blue)
9	Short circuit with No.8
10	ORGLS Sensor NC (Black)
11	None
12	None

RP17-13J-12SC (female)

When Sensor option is selected

1	+5~24V (Blown)
2	COM (Blue)
3	Short circuit with No.2
4	ORGLS Sensor NC (Black)

172211-4 (male)

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)			Resolution		Max. Load Capacity (N)		Permissible speed (mm / sec)	Mass (g)
				L ₁	L ₂	L ₃	F	N	Hor.	Vert.		
CAS14 - R010 - 020	20	1	0.005	107	49	30	1	4	10	5	20	88
CAS14 - R010 - 040	40	1	0.005	127	69	50	2	6	10	5	20	96
CAS14 - R020 - 020	20	2	0.01	107	49	30	1	4	5	3	40	88
CAS14 - R020 - 040	40	2	0.01	127	69	50	2	6	5	3	40	96

Common Specifications	
Repeatability	Max. $\pm 0.01mm$
Lost Motion	Max. 0.01mm
Body Material	Aluminum
Sliding guide	Slide Guide rail

Motor Specifications	
Driving method	2-phase Bi-polar
Rated Voltage	6.3V (DC)
Rated current	0.3A/phase (※)
Winding resistance	21 Ω
Insulation Class	Class B (130°C)

Permissible Moment		Lubrication		Grease
Pitching M _p	0.14Nm	Operating Temp.		MSG No.2 (KSS)
Yawing M _y	0.12Nm			0~40°C
Rolling M _r	0.22Nm			

Please refer to Technical Description page S106 for the Datum clamp face of the Actuator.

※SD4015B3 (Vanguard Systems Co., Ltd.) is recommended for driver. Please use Run current 0.4A setting.