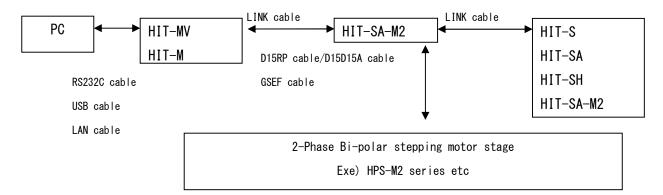
Link controller for multi-axes stages HIT-SA-M2

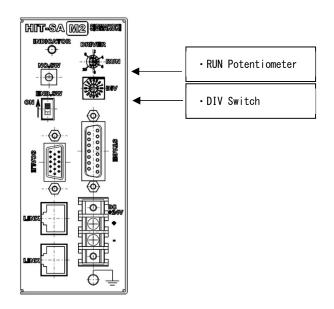
This document explains difference between HIT-SA and HIT-SA-M2.

Please refer to [User's Manual Link controller for multi-aces stages HIT-MV(HIT-M) / HIT-S / HIT-SH] for further details.

HIT-SA-M2 System Diagram



Parts and Functions



- RUN Potentiometer
- : The current delivered when the motor is moving can be set with adjusting RUN potentiometer below.

Please refer to [Settings for Motor Driving Current] for further details.

*)When you adjust motor driving current of HIT-SA-M2, make sure POWER is OFF.

· DIV switch

: It can adjust the divide value for decide to motor step angle.

Please refer to [Settings Motor Divide] for further details.

*)When set motor divide of HIT-SA-M2, make sure POWER is OFF.

Settings for Motor Driving Current



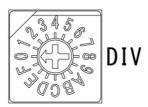
RUN Potentiometer (expansion)

Driving current can be set with RUN potentiometer. its factory default is set to 1.44[A/Phase]

Pot. Scale	0	1	2	3	4	5	6	7	8	9	10
RUN current	0.30	0.31	0.39	0.53	0.78	0.94	1.21	1.44	1.68	1.79	10
[A/Phase]	0.30	0.51	0.39	0.55	0.76	0.94	1.21	1.44	1.00	1.79	1.8

^{*)} The STOP current is fixed at 50% of the RUN current.

Settings Motor Divide



DIV switch (expansion)

The number of motor divisions is set with the DIV switch.

The factory default setting is 7 for the DIV switch that means 20 divide setting.

Vol. Scale	0	1	2	3	4	5	6	7
Motor Divide	1	2	-	4	5	8	10	20
Pulse/rotate	500	1,000	-	2,000	2,500	4,000	5,000	10,000
Vol. Scale	8	9	Α	В	С	D	E	F
Motor Divide	25	40	50	80	100	125	200	250
Pulse/rotate	12,500	20,000	25,000	40,000	50,000	62,500	100,000	125,000

- *) When change Motor Divide, Changing that the STEP switch on HIT-SA-M2 and the memory switch on HIT-MV(HIT-M) is necessary.
- *)Even if sent(S:) command that use for change motor divide from the pc to HIT-M/HIT-MV, motor divide will not change. Please change the memory switch on HIT-MV(HIT-M) to same values.
- *)When change Motor Divide of HIT-SA-M2, please change the memory switch of HIT-MV(HIT-M) to the same.
- *)It's the number of motor divisions when used the 2-phase stepping motor with a basic step angle of 1.8[°].

Specifications

(1)General Specifications

Power Supply DC24[V]/2[A] Operating Temperature $5\sim40[^{\circ}C]$ Storage Temperature $-20\sim60[^{\circ}C]$

Ambient Humidity 20~80[%RH] (No Condensation)

Ecternal Dimensions 130[mm]×120[mm]×50[mm]

Weight 620[g]

(2)Performance

Driving method 2-Phase Bi-polar constant current drive

Driving Electric Current 0.3~1.8[A/Phase]

Current Down Half of Driving Current

Division settings[pulse/rotate] 1(500), 2(1000), 4(2000), 5(2500), 8(4000), 10(5000),

20(10000), 25(12500), 40(20000), 50(25000),

80(40000), 100(50000), 125(62500), 200(100000),

250(125000) divisions

Connector pin assignments

(1) STAGE connector (HIT-SA-M2)

No.	Description	No.	Description
1	Blue : Motor	9	GND: Electromagnetic Brake
2	Red : Motor	10	+24[V] : Electromagnetic Brake
3	-	11	LS(+) : positive side Limit detection
4	Green : Motor	12	LS(-) : negative side Limit detection
5	Black : Motor	13	GND
6	GND	14	NEAR : proximity detection
7	ORG: Mechanical origin detection	15	+24[V] : Sensor Power Source
8	+24[V] : Sensor Power Source		

Connector XM2D-1501(OMRON products) Equivalent product used.

HIT-SA-M2 Outlines

