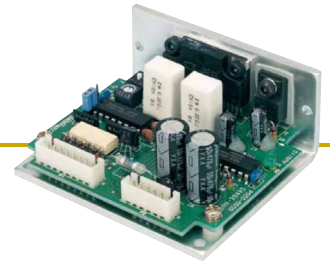


# KS9110

## DC24V Input 2-phase Stepping Motor Driver



DC24V

0.35~2A / phase

Full / half step

Board type

### Specifications



Items	Specification									
Power supply	DC+24V $\pm$ 10% 3A Max.(total current consumed)									
Output current	0.35~2A Max. / phase Variable resistor (VR) setting (Set to 1 A / phase when shipped)									
Drive method	Chopper mode by Uni-polar constant current									
Excitation method (2 phase excitation at shipment) Full / half	<table border="0"> <tr> <td>1-phase excitation Dip switch</td> <td></td> <td>(half step) 1-2 phase excitation Dip switch</td> <td></td> <td>(full step) 2 phase excitation Dip switch</td> <td></td> </tr> </table>	1-phase excitation Dip switch		(half step) 1-2 phase excitation Dip switch		(full step) 2 phase excitation Dip switch				
1-phase excitation Dip switch		(half step) 1-2 phase excitation Dip switch		(full step) 2 phase excitation Dip switch						
Input signal circuit	Photo coupler TLP521 (Toshiba), Input resistance 200 $\Omega$ Photo coupler input current, over 10mA, below 20mA									
Input signal	<table border="0"> <tr> <td>1-pulse input PULSE DIR</td> <td>Jumper switch </td> <td rowspan="2">DIR signal's photo coupler current and rotation direction</td> </tr> <tr> <td></td> <td></td> <td>ON rotation</td> </tr> <tr> <td></td> <td></td> <td>OFF rotation</td> </tr> </table>	1-pulse input PULSE DIR	Jumper switch	DIR signal's photo coupler current and rotation direction			ON rotation			OFF rotation
	1-pulse input PULSE DIR	Jumper switch	DIR signal's photo coupler current and rotation direction							
				ON rotation						
		OFF rotation								
2-pulse input CW CCW	Jumper switch	Note : Make sure that CCW input photo coupler current is OFF during CW input and CW input photo coupler current is OFF during CCW input. Never input pulse to both CW and CCW at the same time.								
ENABLE	When photo coupler current is ON, motor is not excitable. When photo coupler current is OFF, motor is excitable.									
(Set to 1 pulse input at shipment)	Pulse duration is 5 $\mu$ sec or more, rise / fall time is 2 $\mu$ sec or less. Operation starts when photo coupler current is switched from ON to OFF.									
Output signal	CKOUT (CKO)	Land for checking input pulse : TTL output								
	Current terminal (IS)	Terminal for checking output current : 0.23(V)=1(A/phase)								
Automatic current down (Set ON at shipment)	<table border="0"> <tr> <td>When in operation Dip switch</td> <td></td> <td>Approximately 1 sec after turning on input pulse, output current drops approximately 50%.</td> <td>When not in operation Dip switch</td> <td></td> </tr> </table>	When in operation Dip switch		Approximately 1 sec after turning on input pulse, output current drops approximately 50%.	When not in operation Dip switch					
When in operation Dip switch		Approximately 1 sec after turning on input pulse, output current drops approximately 50%.	When not in operation Dip switch							
Surrounding environment	During operation	0~40 $^{\circ}$ C under 90% RH (no condensation)								
	Stand-by	-10~70 $^{\circ}$ C under 90% RH (no condensation)								
Accessories	Connector housing 1pc XHP-6 (JST), 1pc XHP-8 (JST), 14pcs contacts BXH-001T-P0.6 (JST)									
Mass	106g									

### Driver Outer Dimensions

