

**SW-2**

**Direction Setting**

Speed per Revolution	Switch			
	A	B	P	Z
500	off	on	on	on
600	on	off	on	on
700	off	off	on	on
800	off	on	off	on
900	off	on	on	off
1000	on	off	on	off
11000	off	off	on	off
12000	off	off	on	off
13000	off	off	on	off
14000	off	off	on	off
15000	off	off	on	off
16000	off	off	on	off
17000	off	off	on	off
18000	off	off	on	off
19000	off	off	on	off
20000	off	off	on	off
21000	off	off	on	off
22000	off	off	on	off
23000	off	off	on	off
24000	off	off	on	off
25000	off	off	on	off
26000	off	off	on	off
27000	off	off	on	off
28000	off	off	on	off
29000	off	off	on	off
30000	off	off	on	off

**SW-2**

**Current Setting**

Current Table	Switch		
	1	2	3
1.00A	on	on	on
1.40A	off	on	on
1.80A	on	off	on
2.20A	off	off	on
2.60A	on	on	off
3.00A	off	on	off
3.40A	on	off	off
3.80A	off	off	off
4.20A	off	off	off

**SW-1**

Smooth Mode	Sw1	Sw2
0	off	off
1	off	on
2	on	off
3	on	on

Peak Current=RM3=1.4

Sw1 Off=Run; On=Self Test  
 Sw2 Off=Pot&Dir; On=CmdSel  
 Sw3 Off=Up edge; On=Down edge

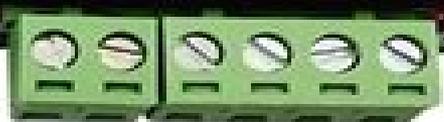
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SW1  
 SW2  
 SW3  
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 SW97  
 SW98  
 SW99  
 SW100

Sw Off=Half Current; On=Full Current



Green LED=POWER  
 Red LED=ALARM



# Two Phase Stepper Motor Driver Stmicroelectronics

**RD Boyd**



## **Two Phase Stepper Motor Driver Stmicroelectronics:**

**Micromechatronics** Victor Giurgiutiu, Sergey Edward Lyshevski, 2016-04-19 Focusing on recent developments in engineering science enabling hardware advanced technologies and software Micromechatronics Modeling Analysis and Design with MATLAB Second Edition provides clear comprehensive coverage of mechatronic and electromechanical systems It applies cornerstone fundamentals to the design of electromechanical syst **Operation, Construction, and Functionality of Direct Current Machines** Amin, Muhammad, Rehmani, Mubashir Husain, 2015-04-30 Direct current machines are a quickly evolving domain whose applications affect many aspects of modern life from computers and printers to toys electric vehicles and traction applications As their many uses continue to grow it has become apparent that understanding these machines is the key to understanding our future Operation Construction and Functionality of Direct Current Machines brings together many concepts from the most basic working principles and construction of DC machines to more advanced topics such as electro magnetism armature reaction parallel operations and many more Highlighting theoretical concepts and numerical problems this book is an essential reference source for students educators and anyone interested in the field of electric machines **Mechatronics and Control of Electromechanical Systems** Sergey Edward Lyshevski, 2017-07-14 Due to the enormous impact of mechatronics systems we encounter mechatronics and micromechatronic systems in our daily activities Recent trends and novel technologies in engineering have increased the emphasis on integrated analysis design and control This book examines motion devices actuators motors transducers and sensors power electronics controllers and electronic solutions with the main emphasis placed on high performance mechatronic systems Analysis design optimization control and implementation issues as well as a variety of enabling mechatronic systems and devices are also covered The results extend from the scope of mechatronic systems to the modern hardware software developments utilizing enabling solutions and placing the integrated system perspectives in favor of consistent engineering solutions Mechatronics and Control of Electromechanical Systems facilitates comprehensive studies and covers the design aspects of mechatronic systems with high performance motion devices By combining traditional engineering topics and subjects with the latest technologies and developments new advances are stimulated in design of state of the art mechatronic systems This book provides a deep understanding of the engineering underpinnings of integrated technologies **Electronics and Signal Processing** Wensong Hu, 2011-06-21 This volume includes extended and revised versions of a set of selected papers from the International Conference on Electric and Electronics EEIC 2011 held on June 20 22 2011 which is jointly organized by Nanchang University Springer and IEEE IAS Nanchang Chapter The objective of EEIC 2011 Volume 1 is to provide a major interdisciplinary forum for the presentation of new approaches from Electronics and Signal Processing to foster integration of the latest developments in scientific research 133 related topic papers were selected into this volume All the papers were reviewed by 2 program committee members and selected by the volume editor

Prof Wensong Hu We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the Electronics and Signal Processing

**4th EAI International Conference on Robotic Sensor Networks** Shenglin Mu, Li Yujie, Huimin Lu, 2021-07-29 This book presents papers presented at the 4th EAI International Conference on Robotic Sensor Networks The conference explored the integration of networks and robotic technologies which has become a topic of increasing interest for both researchers and developers from academic fields and industries worldwide The authors explore how big networks are becoming the main tool for the next generation of robotic research owing to the explosive number of networks models and the increased computational power of computers The papers discuss how these trends significantly extend the number of potential applications for robotic technologies while also bringing new challenges to the networks communities The 2nd EAI International Conference on Robotic Sensor Networks was held online on November 21-22 2020

**I Bytes Technology industry** ITShades.com, 2020-11-10 This document brings together a set of latest data points and publicly available information relevant for Technology Industry We are very excited to share this content and believe that readers will benefit from this periodic publication immensely

*IC Master*, 2001 *IoT and Big Data Technologies for Health Care* Shuihua Wang, Zheng Zhang, Yuan Xu, 2022-06-17 This two volume set of LNICST 414 and 415 constitutes the refereed post conference proceedings of the 2nd International Conference on IoT and Big Data Technologies for Health Care IoT CARE 2021 which took place in October 2021 Due to COVID 19 pandemic the conference was held virtually The 79 revised full papers were carefully reviewed and selected from 165 submissions The papers are arranged thematically as follows Integrating healthcare with IoT Information fusion for the devices of IoT AI based internet of medical things

Power Electronics in Transportation, 2004 *EDN*, 2005 **Electronic Business**, 2005 The management magazine for the electronics industry

Proceedings of the ... International Conference on Microelectronics, 2003 USB Design by Example John Hyde, 2001 This unique guide goes beyond all the USB specification overviews to provide designers with the expert knowledge and skills they need to design and implement USB I/O devices

Proceedings of the ... International Symposium on Power Semiconductor Devices and ICs, 2004 *Asia Electronics Industry*, 2005

**Step Motors and Control Systems** Benjamin C. Kuo, 1979 **Stepping Motors and Their Microprocessor Controls** Takashi Kenjō, Akira Sugawara, 1994 From reviews of the first edition quality and quality of illustrations is noteworthy a comprehensive and thought provoking summary of stepping motor technology Times Higher Education Supplement A general textbook on the use of stepping motors a comprehensive guide to the subject Electronics and Power Whenever repeated stop start or incremental controlled motions are encountered there are applications for stepping motors Their basic design and construction make them eminently suitable for digital microprocessor control and they are consequently found in computer hardware disk drives printers etc in clocks in numerically controlled machine tools and in domestic appliances In this successful textbook the authors take a practical approach to stepping motors using many

informative diagrams to explain their working principles construction details electronic controls applications and methods of manufacture

*Sensorless Control of Two-phase Hybrid Stepper Motor Using Back Emf* Saim Başkan,2007 *Design and Development of an Embedded System for Micro Stepper Motor* G. K. Sivasankarayadav,T. Sathya Yadav, P.Thimmaiah,2012-08 This work explains the Importance of Micro stepper motor in various fields like military medical applications process control system machine tools manufacture of packaged foodstuffs robotics textile industry integrated circuit fabrication and commercially used So accurate control of stepper motor is necessary for these applications In general stepper motors are driving in full step half step and micro step modes In this work for operating the micro step we used A3977 Driver The A3977 translator converts the STEP and DIRECTION inputs into the control signals required to sequence the current in each of the two H bridge outputs for full half quarter and eighth step micro stepping operation of a bipolar stepper motor The A3977 is a complete micro stepping motor driver with built in translator for easy operation with minimal control lines It is designed for operating bipolar stepper motors in full half quarter and eighth step modes

**Incremental Motion Control: Step motors and control systems, edited by B. C. Kuo** Benjamin C. Kuo, Jacob Tal,1979

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