



FEATURES

- 30A capacity in small size
- Contributes to device energy savings with latching type.
- High insulation**
4,000V AC (between contacts and coil)
Surge 10,000V (between contacts and coil)
Creepage distance and clearances between contact and coil: 8 mm
- Sealed construction**
- UL/C-UL approved

TYPICAL APPLICATIONS

- Time switches
- Electric water heaters
- Remote control of electric power meters

ORDERING INFORMATION

ADQ [] 3 Q 0 []

Operating function

- 1 coil latching (1 Form A)
- 2 coil latching (1 Form A)

Contact capacity

3-30 A

Terminal shape

Q: 250 Faston terminal

Contact characteristics

0: Standard contact

Coil voltage (DC)

05: 4.5 V, 06: 6 V, 09: 9 V, 12: 12 V, 24: 24 V

TYPES

Contact arrangement	Nominal coil voltage		Part No.	
1 Form A	4.5V DC	1 coil latching		2 coil latching
	6V DC	ADQ13004H		ADQ23004H
	9V DC	ADQ13006		ADQ23006
	12V DC	ADQ13009		ADQ23009
	24V DC	ADQ13012		ADQ23012
		ADQ13024		ADQ23024

Standard packing: Carton: 20 pcs.; Case: 250 pcs.

RATING

1. Coil data

1) 1 coil latching

Nominal coil voltage	Set voltage* (at 20°C (68°F))	Reset voltage* (at 20°C (68°F))	Nominal operating current (±10%) (at 20°C (68°F))	Coil resistance (±10%) (at 20°C (68°F))	Nominal operating power	Max. applied voltage (at 20°C (68°F))
4.5V DC	70%V or less of nominal voltage (1/1000)	70%V or less of nominal voltage (1/1000)	111.5mA	40.5Ω	500mW	130%V of nominal voltage
6V DC			83.3mA	72Ω		
9V DC			55.6mA	162Ω		
12V DC			41.7mA	288Ω		
24V DC			20.8mA	1,152Ω		

* Pulse, direction of measurement: Terminal is downward.

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DJ Losen



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Power Electronics Handbook Muhammad H. Rashid,2023-09-27 Power Electronics Handbook Fifth Edition delivers an expert guide to power electronics and their applications The book examines the foundations of power electronics power semiconductor devices and power converters before reviewing a constellation of modern applications Comprehensively updated throughout this new edition features new sections addressing current practices for renewable energy storage transmission integration and operation as well as smart grid security intelligent energy artificial intelligence and machine learning applications applied to power electronics and autonomous and electric vehicles This handbook is aimed at practitioners and researchers undertaking projects requiring specialist design analysis installation commissioning and maintenance services Provides a fully comprehensive work addressing each aspect of power electronics in painstaking depth Delivers a methodical technical presentation in over 1500 pages Includes 50 contributions prepared by leading experts Offers practical support and guidance with detailed examples and applications for lab and field experimentation Includes new technical sections on smart grid security and intelligent energy artificial intelligence and machine learning applications applied to power electronics and autonomous and electric vehicles Features new chapter level templates and a narrative progression to facilitate understanding

Energy Conversion and Green Energy Storage Amit Soni,Dharmendra Tripathi,Jagrati Sahariya,Kamal Nayan Sharma,2022-09-14 Energy Conversion and Green Energy Storage presents recent developments in renewable energy conversion and green energy storage Covering technical expansions in renewable energy and applications energy storage and solar photovoltaics the book features chapters written by global experts in the field Providing insights related to various forms of renewable energy the book discusses developments in solar photovoltaic applications The book also includes simulation codes and programs such as Wien2k code VASP code and MATLAB The book serves as a useful reference for researchers graduate students and engineers in the field of energy

Indoor Photovoltaics Monika Freunek Muller,2020-11-12 This is the first and most comprehensive guide on the modeling engineering and reliable design of indoor photovoltaics which currently is the most promising and energy efficient power supply for edge nodes for the Internet of Things and other indoor devices Indoor photovoltaics IPV has grown in importance over recent years This can in part be attributed to the creation of the Internet of Things IoT and Artificial Intelligence AI along with the vast amounts of data being processed in the field which has been a massive accelerator for this development Moreover since energy conservation is being imposed as the national strategy of many countries and is being set as a top priority throughout the world understanding and promoting IPV as the most promising indoor energy harvesting source is considered by many to be essential these days The book provides the engineer and researcher with guidelines and presents a comprehensive overview of theoretical models efficiencies and application design This unique and groundbreaking book has chapters by leading researchers on Introduction to micro energy harvesting Introduction to indoor photovoltaics Modeling

indoor irradiance Characterization and power measurement of IPV cells Luminescent solar concentrators Organic photovoltaic cells and modules for applications under indoor lighting conditions High efficiency indoor photovoltaic energy harvesting Indoor photovoltaics based on ALGAs alloys GaN Power Devices for Efficient Power Conversion Alex Lidow, Michael de Rooij, John Glaser, Alejandro Pozo Arribas, Shengke Zhang, Marco Palma, David Reusch, 2024-12-31 An up to date and concise review of GaN transistor design and applications In the newly revised fourth edition of GaN Power Devices for Efficient Power Conversion a team of distinguished researchers and practicing engineers deliver a concise and effective new guide to designing small energy efficient and inexpensive products with GaN transistors This new edition covers all relevant new GaN technology advancements allowing students and practicing engineers to get and stay ahead of the curve with GaN device and circuit technology You ll explore applications including DC to DC converters solar inverters motor drive controllers satellite electronics and LiDAR devices The 4th edition offers critical updates for space applications vertical GaN and driving transistors and integrated circuits New chapters on reliability testing advancements device wear out mechanisms thermal management and the latest developments in monolithic integration round out the book Readers will also find The latest updates on significant technology improvements like integrated circuits reliability studies and new applications Comprehensive explorations of integrated circuit construction characteristics reliability results and applications Practical discussions of specific circuit designs layout and thermal dissipation when designing power conversion systems Chapters written by practicing expert leaders in the power semiconductor field and industry pioneers Perfect for practicing power conversion engineers GaN Power Devices for Efficient Power Conversion will also benefit electrical engineering students and device scientists in the field of power electronics *Timing Jitter in Time-of-Flight Range Imaging Cameras* Gehan Anthony, 2022-03-11 This book explains how depth measurements from the Time of Flight ToF range imaging cameras are influenced by the electronic timing jitter The author presents jitter extraction and measurement techniques for any type of ToF range imaging cameras The author mainly focuses on ToF cameras that are based on the amplitude modulated continuous wave AMCW lidar techniques that measure the phase difference between the emitted and reflected light signals The book discusses timing jitter in the emitted light signal which is sensible since the light signal of the camera is relatively straightforward to access The specific types of jitter that present on the light source signal are investigated throughout the book The book is structured across three main sections a brief literature review jitter measurement and jitter influence in AMCW ToF range imaging *Datamation* ,1981 **Digital Design** ,1985 Traffic Surveillance by Wireless Sensor Networks Sing Yiu Cheung, 2006 Computer Design's Data Sheet Directory of Digital Electronics ,1974 *Electronic Packaging and Production* ,1991 *Educate* ,1968 *Control Engineering* ,1979 EDN ,2000 Electronic Design ,1999 Popular Electronics ,1982 **Audio** ,1956 *Product Safety & Liability Reporter* ,1995 Proceedings of the ... Annual Conference of the IEEE Industrial Electronics Society IEEE Industrial Electronics Society. Conference, 2003

Proceedings ,2001

Computers & Electronics ,1982

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