

AZ821/AZ831

SUBMINIATURE DIP RELAY

FEATURES

- Low profile for compact board spacing
- DC coils to 48 VDC
- Single button crossbar contacts
- High sensitivity, 100 mW pickup
- Life expectancy to 15 million operations
- High switching capacity, 60 W, 125 VA
- Fits standard 16 pin IC socket
- Epoxy sealed
- Meets FCC Part 68.302 1500 V lightning surge
- Meets FCC Part 68.304 1000 V dielectric
- UL, CUR file E43203



CONTACTS

Arrangement	DPDT (2 Form C)
Ratings	Resistive load: Max. switched power: 60 W or 125 VA Max. switched current: 3 A Max. switched voltage: 220 VDC or 250 VAC
Rated Load UL, CUR	1.0 A at 125 VAC, AZ821 0.5 A at 125 VAC, AZ831 0.3 A at 100 VDC 1.0 A at 30 VDC
Material	Silver nickel, gold plated
Resistance	< 100 milliohms initially 200 milliohms at end of life

COIL

Power At Pickup Voltage (typical)	AZ821: 250 mW AZ831: 100 mW
Max. Continuous Dissipation	1.1 W at 20°C (68°F)
Temperature Rise	AZ821: 37°C (67°F) at nominal coil voltage AZ831: 18°C (32°F) at nominal coil voltage
Temperature	Max. 105°C (239°F)

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Other coil resistances and sensitivities available upon request.
4. Specifications subject to change without notice.

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 15 x 10 ⁶ 1 x 10 ⁵ at 2 A 30 VDC Res.
Operate Time (typical)	5 ms at nominal coil voltage
Release Time (typical)	4 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	1000 Vrms coil to contact 750 Vrms contact to contact
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 5% of nominal coil voltage
Capacitance	Contact to contact: 2.0 pF Contact set to contact set: 1.5 pF Contact to coil: 5.0 pF
Ambient Temperature Operating Storage	At nominal coil voltage AZ821: -40°C (-40°F) to 60°C (140°F) AZ831: -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
Vibration	1.5 mm DA at 10–55 Hz
Shock	10 g 11 ms 1/2 sine
Enclosure	P.B.T. polyester 94 V-0
Terminals	Tinned copper alloy
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	6 grams
Packing unit in pcs	25 per plastic tube / 1000 per carton box

ZETTLER electronics GmbH

Junkersstrasse 3, D-82178 Puchheim, Germany

Tel. +49 89 800 97 0
Fax +49 89 800 97 200

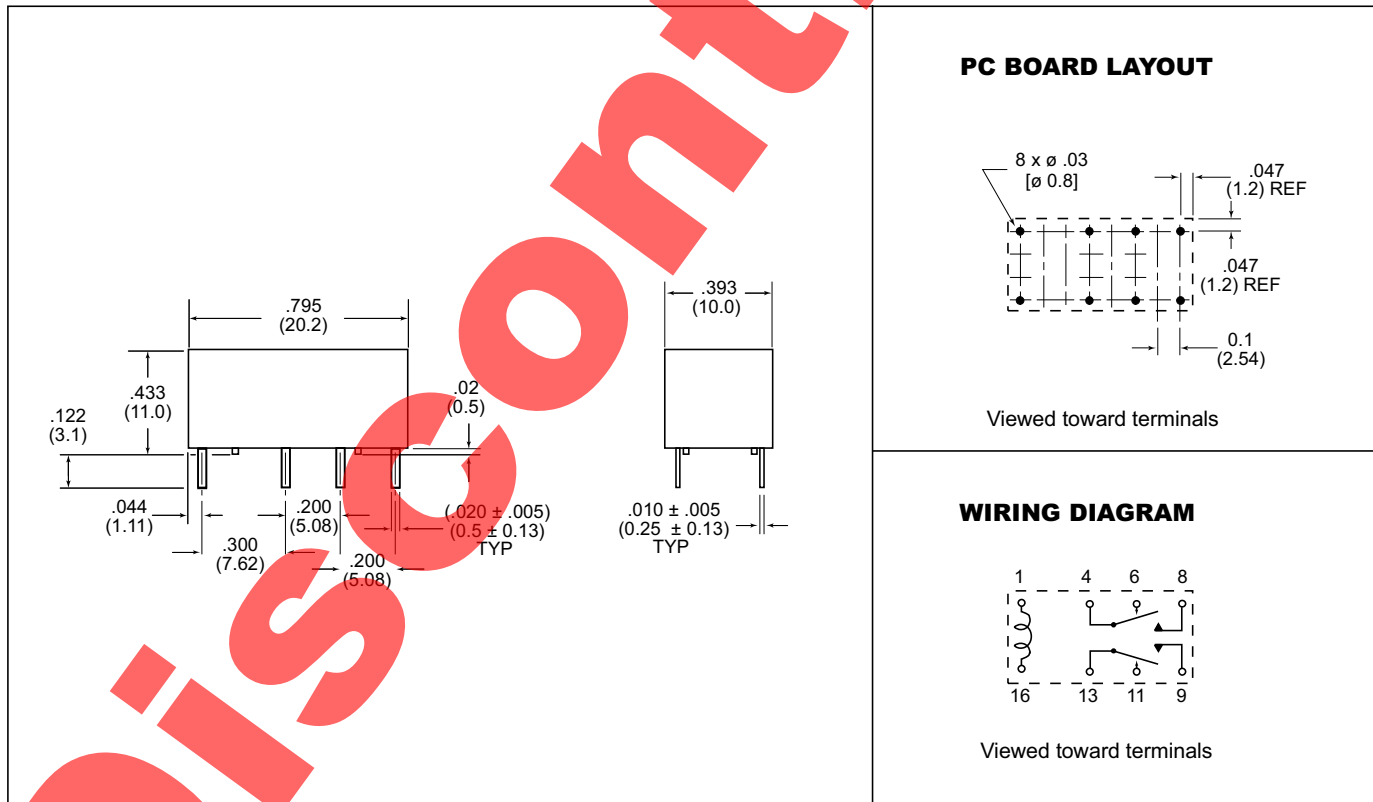
office@ZETTLERelectronics.com
www.ZETTLERelectronics.com

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RELAY ORDERING DATA

STANDARD COIL SPECIFICATIONS				ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	
5	3.5	6.3	36	AZ821-2C-5DE
6	4.2	8.9	70	AZ821-2C-6DE
9	6.3	12.5	140	AZ821-2C-9DE
12	8.4	17.8	280	AZ821-2C-12DE
24	16.8	34.4	1,050	AZ821-2C-24DE
48	33.6	67.3	4,000	AZ821-2C-48DE
SENSITIVE COIL SPECIFICATIONS				ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	
5	3.5	11.2	125	AZ831-2C-5DSE
6	4.2	13.5	180	AZ831-2C-6DSE
9	6.3	20.3	405	AZ831-2C-9DSE
12	8.4	27.0	720	AZ831-2C-12DSE
24	16.8	54.1	2,880	AZ831-2C-24DSE
48	33.6	108.3	11,520	AZ831-2C-48DSE

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010''$

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