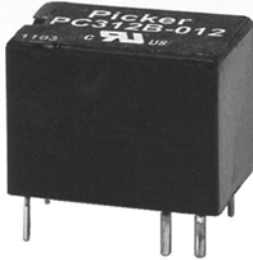


## Subminiature PCB Telecom Relay

# PC312B



### FEATURES

- Subminiature design
- PC Terminals on .1 in. grid pattern
- Contact capacity from 1 mA to 5A
- Meets FCC part 68 voltage surge
- Class "B" insulation standard
- Three coil sensitivities available
- Sealed, immersion cleanable



File # E86876

### UL/CSA RATINGS

Contact Form	1 Form C SPDT
Rated Load	1A @ 120VAC / 30 VDC
Rated Load (Special)	3A & 5A @ 120VAC / 30VDC
Max. Switching Current	2 Amps
Max. Switching Current (S)	5 Amps
Minimum Load (Gold Plated)	1 mA @ 1 VDC

### CONTACT DATA

Material	Ag (Fine Silver), Ag+Au (Fine Silver Gold Clad) AgNi (Silver Nickel), AgCdO (Silver Cadmium Oxide)	
Initial Contact Resistance	100 milliohms max @ 0.1A, 6VDC (with Gold Plate)	
Service Life	Mechanical	1 X 10 <sup>7</sup> Operations
	Electrical	1 X 10 <sup>5</sup> Operations

### CHARACTERISTICS

Operate Time	5 ms. Max.
Release Time	5 ms. Max.
Insulation Resistance	100 megohms min, at 500VDC, 50%RH
Dielectric Strength	1250 Vrms, 1 min. between coil and contacts 500 Vrms, 1 min. between open contacts: 750 Vrms, 1 min for S version
Surge Resistance	1500 V, between coil and contacts (FCC Part 68)
Shock Resistance	10 g, 11ms, functional; 100 g, destructive
Vibration Resistance	DA 1.5 mm, 10 - 55 Hz
Power Consumption	0.45 W, 0.36 W or 0.2 W
Ambient Temperature Range	-25 to 70 C operating, -30 to 130 storage
Weight	3.5 grams approx.

### ORDERING INFORMATION

Example:	PC312B	-12	H	S
Model				
Coil Voltage				
Coil Sensitivity				
Nil: 0.36 W; B: 0.45 W; H: 0.2 W				
Current Rating				
Nil: Standard, 2 Amp; S: Special 5 Amp				

**COIL DATA**

Coil Voltage	Resistance ohms $\pm$ 10%			Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
	Sensitivity Code B 0.45 W	Standard Sensitivity 0.36 W	Sensitivity Code H 0.2 W		
3	20	25	45	2.25	0.3
5	56	70	120	3.75	0.5
6	80	100	180	4.50	0.6
9	180	220	440	6.75	0.9
12	320	400	700	9.00	1.2
18	720	900	1620	13.5	1.8
24	1280	1600	2800	18.00	2.4

Note: Custom coil voltages within the ranges shown are available on special order.

**Dimensions in Inches (millimeters)**

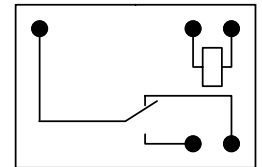
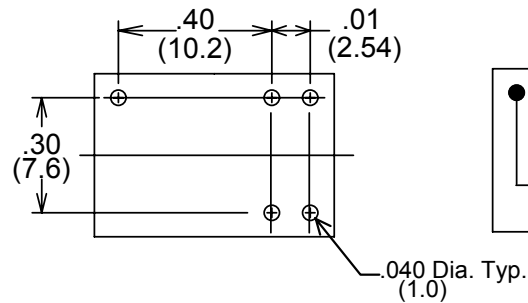
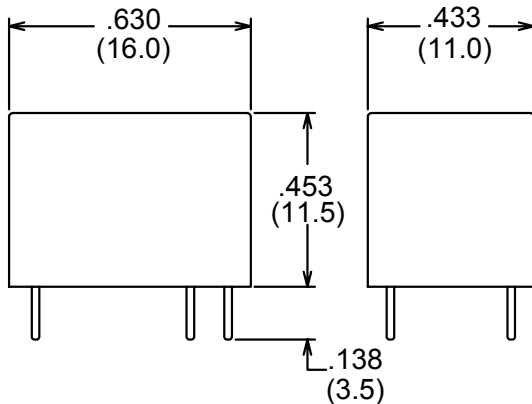
**Drawings are 2X actual size**

**Side View**

**End View**

**Bottom View  
PC Board Layout**

**Wiring Diagram**



**Notes:**

Tolerances  $\pm$  .010 unless otherwise noted



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