
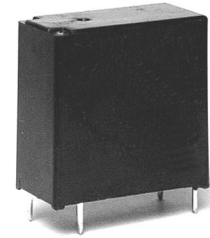


# Greenwich Electronics, Inc.

## LD4 Series

- High inrush capacity
- Excellent surge resistance (4kV)
- High sensitivity coil available
- Approvals:  us (E197070)
- Applications: light duty controls, small appliances, office equipment, general purpose



### COIL DATA

Nominal Voltage (DC)	Nominal Coil Current (mA) (± 10% at 20 <sup>0</sup> C)		Coil Resistance (Ω) (± 10% at 20 <sup>0</sup> C)	
	Std coil	Sensitive coil (H)	Std coil	Sensitive coil (H)
5	72	50	69	100
6	60	41	100	145
9	40	28	225	325
12	30	21	400	575
14	26	18	544	790
18	20	14	900	1300
24	15	10	1600	2310
48	8	5	6400	9220

Pick-up Voltage	≤70% nominal
Drop-out Voltage	≤5% nominal
Max. Coil Voltage	130% nominal
Coil Consumption	<b>Std:</b> Approx. 0.36W, <b>H:</b> Approx. 0.25W

### Contact

Configuration	<b>A:</b> 1 form A (SPST-NO), <b>C:</b> 1 form C (SPDT),
Material	Silver (Ag) alloy
Rated Load	5A@30VDC / 250VAC (resistive) 2.5A@30VDC / 250VAC (inductive)
Max. Carry Current	5A
Max. Switching Voltage	30VDC / 250VAC
Max. Switching Current	5A (resistive), 2.5A (inductive)
Max. Switching Power	150W / 1250VA (resistive), 75W / 625VA (inductive)

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## CHARACTERISTICS

Contact Resistance	Max. 100mΩ
Operate Time	≤10ms
Release Time	≤5ms
Insulation Resistance	1000MΩ (@500VDC)
Dielectric Strength:	
• Between coil and contacts	2000VAC - 50Hz / one minute
• Between open contacts	750VAC - 50Hz / one minute
Vibration Resistance	10-55Hz, 3.3mm, double amplitude (functional)
Shock Resistance	Min. 10g (functional)
Ambient Temperature	
• Operate	-40 <sup>0</sup> C to 70 <sup>0</sup> C
• Storage	-40 <sup>0</sup> C to 70 <sup>0</sup> C
Relative Humidity	45 to 85%
Life Expectancy:	
• Mechanical	1 x 10 <sup>7</sup>
• Electrical	1 x 10 <sup>5</sup> (at rated load)
Weight	Approx. 8 grams

## ORDERING INFORMATION

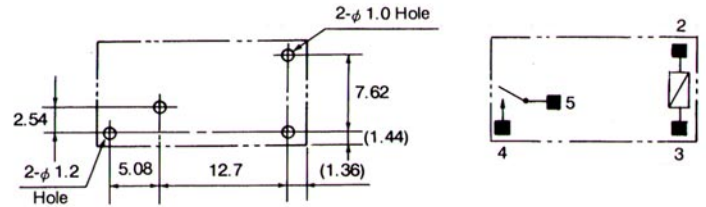
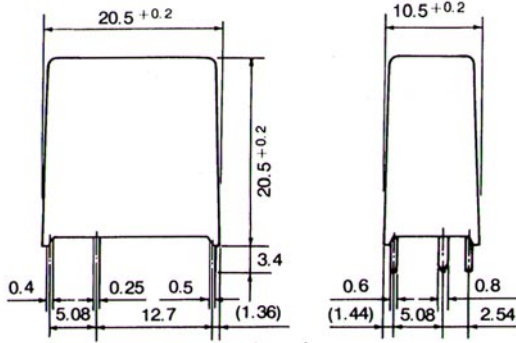
<u>LD4</u>	-	<u>012</u>	-	<u>C</u>	<u>H</u>	<u>S</u>
I		II		III	IV	V
I.	Series				<b>LD4</b>	
II.	Coil Voltage (VDC)				<b>005, 006, 009, 012, 014, 018, 024, 048</b>	
III.	Contact Configuration				<b>A - 1 form A (SPST-NO), C - 1 form C (SPDT)</b>	
IV.	Coil Sensitivity				<b>nil - Standard, H - High Sensitivity</b>	
V.	Package Type				<b>S - Sealed</b>	

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## LD4 Series Dimensions and Schematics (in mm)

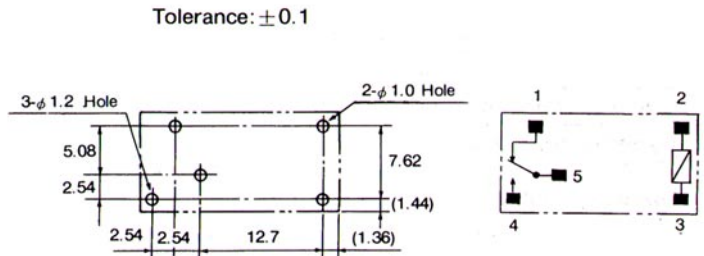
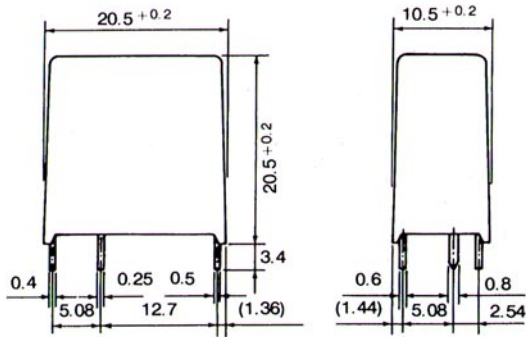
SPST-NO – 1 form A

Terminal arrangement and wiring diagram



Tolerance :  $\pm 0.3$

SPDT – 1 form C



Tolerance:  $\pm 0.1$