



Greenwich Electronics, Inc

GP2 Series

- Low profile package
- High dielectric strength (4kV)
- Industry standard footprint
- Approvals:  (E197070)
 (R50008418)
- Applications: timers, heaters, industrial controls, appliances, general purpose



COIL DATA

Nom. Voltage (DC)	0.32W Nom. Coil Current (mA) (± 10% at 20°C)	Coil Resistance (Ω) (± 10% at 20°C)	0.45W Nom. Coil Current (mA) (± 10% at 20°C)	Coil Resistance (± 10% at 20°C)
3	110	27	150	20
5	63	80	89	56
6	55	110	75	80
9	36	250	50	180
12	28	440	38	320
24	14	1780	19	1280
48	7	7200	9	5120

Pick-up Voltage	≤75% nominal
Drop-out Voltage	≥10% nominal
Max. Coil Voltage	≤130% nominal
Coil Consumption	Approx. 0.32W (0.45W by request)

Contact

Configuration	A: 1 form A (SPST-NO), C: 1 form C (SPDT)
Material	Silver (Ag) Alloy - Gold (Au) flash available
Rated Load	UL: 05: 5A@28VDC/125VAC 10: 10A@28VDC/125VAC 12: 12A@28VDC/125VAC - 10A@28VDC/240VAC - 6A@28VDC/300VAC NO: 1/6hp - 2.2 FLA - 13.2 LRA@240VAC (H-type 1/3hp@120VAC) 1/10hp - 3 FLA - 18 LRA@120VAC 48VA Pilot duty@24VAC NC: 1/10hp - 1.5 FLA - 6 LRA@120VAC 2 FLA - 12 LRA@120VAC 25VA Pilot Duty@24VAC TUV: 12: 6A@28VDC/250VAC

Greenwich Electronics, Inc

Max. Carry Current	5: 5 10: 10 12: 12
Max. Switching Voltage	110VDC / 380VAC
Max. Switching Current	20A
Max. Switching Power	335W, 2400VA

CHARACTERISTICS

Contact Resistance	Max. 50mΩ
Operate Time	≤7ms
Release Time	≤4ms
Insulation Resistance	500MΩ min. (@500VDC)
Dielectric Strength:	
• Between coil and contacts	Std type: 2000VAC - 50Hz / one minute
• Between open contacts	H type: 4000VAC - 50Hz / one minute
Vibration Resistance	1000VAC - 50Hz / one minute
Shock Resistance	10-50Hz, 1.5mm, double amplitude
Ambient Temperature	10g (Approx.)
• Operate	-40°C to +85°C
• Storage	-40°C to +155°C
Relative Humidity	20% - 85%
Life Expectancy:	
• Mechanical	1 x 10 ⁷
• Electrical	1 x 10 ⁵ (at rated load)
Weight	Approx. 11 grams

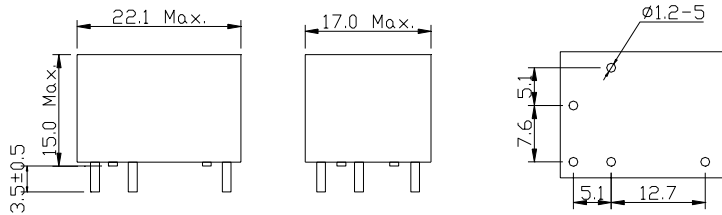
ORDERING INFORMATION

<u>GP2</u>	-	<u>012</u>	-	<u>A</u>	<u>H</u>	<u>10</u>	<u>S</u>	<u>F</u>	<u>G</u>
I		II		III	IV	V	VI	VII	VIII
I.	Series			GP2					
II.	Coil Voltage (VDC)			003, 006, 009, 012, 024, 048					
III.	Contact Configuration			A - 1 form A (SPST-NO), C - 1 form C (SPDT)					
IV.	Dielectric Strength			nil - standard (2kV), H - High dielectric (4kV)					
V.	Contact Rating			5 - 5A, 10 - 10A, 12 - 12A					
VI.	Package Type			D - dust cover, S - Sealed					
VII.	Temperature Class			nil - storage to 85°C, F - Class "F" (storage to 155°C)					
VIII.	Contact Plating			nil - standard, G - Gold flash					

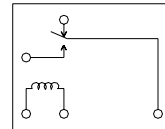
Greenwich Electronics, Inc

GP2 Series Dimensions and Schematics (in mm)

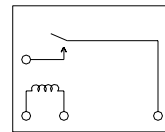
GP2 – standard style (2kV dielectric)



Terminal arrangement and wiring diagram

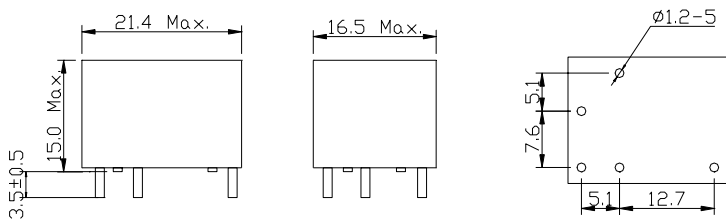


SPDT - 1 form C

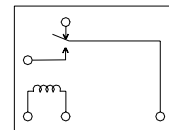


SPST-NO - 1 form A

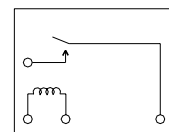
GP2 – H style (4kV dielectric)



Terminal arrangement and wiring diagram



SPDT - 1 form C



SPST-NO - 1 form A