

CW INDUSTRIES

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Email: info@cwind.com • Website: <http://www.cwind.com>**Item # GRL-4012-0001, 4000 Series Illuminated Miniature Rocker Switches**
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[DIGI-KEY](#)**Specifications**

Circuitry	SPDT
Switch Function	ON-ON
Electrical Ratings¹	3 A @ 277 VAC 4 A @ 250 VAC 8 A @ 125 VAC NEON
Acceptable Panel Thickness	0.050 - 0.150 in 1.27 - 3.81 mm
Mounting	Self locks without hardware when inserted into a 0.756" (19.20 mm) x 0.508" (12.90 mm) panel cutout. Acceptable panel thickness range is from 0.050" (1.27 mm) to 0.150" (3.81 mm). CAUTION: Burr direction must be away from the direction of insertion.
Mounting Polarization	None
Actuator Color	Red
Actuator Legend	None
Illumination	Illuminated
Housing Color	Black
Insulating Barriers	(X) Between Poles (_) Between Terminals (_) No Barriers
Terminal	(X) 0.187 x 0.032in. 4.75 x 0.81mm. Quick Connect (_) 0.187 x 0.020in. 4.75 x 0.51mm. Quick Connect (_) 0.110 x 0.032in. 2.79 x 0.81mm. Quick Connect (_) 0.110 x 0.032in. 2.79 x 0.81mm. Solder Terminal
Contact Action	Sliding with Self Cleaning Contacts
Listing Agency (Consult drawing or factory for specific rating)²	 Listed Agencies

Compliance

¹ All ratings are on a load per pole, opposite polarity basis. Additional ratings may be available, contact us for more information.

² Due to ongoing advancements, additional agency certifications may be available, contact us for more information.

Materials

Rocker Knob	Translucent Nylon 6/6 (Optional) Transparent Polycarbonate (Standard)
Rocker Lamp	High intensity neon lamp type NE-38 with 1/8 watt 47 kΩ resistor, 10,000 hour life for 125 volt applications (standard)
Housing	Nylon 94V-2
Terminal & Moving Contact	Copper Alloy or Copper Alloy Silver Plated

Operating Standards**Endurance:**

100,000 cycles, no load, minimum

25,000 cycles at rated load minimum up to 16 A @ 125 VAC

10,000 cycles at rated load minimum 16 A @ 250 VAC

Contact Resistance:

Less than 0.01 Ω at 10 mA (Initial)

Operating Temperature:

From -20°C to 105°C maximum.

Consult factory for higher or lower temperature ranges.

High Voltage Dielectric Withstanding Voltage:

2,500 V, 60 Hz for 1 minute between mounting surface and circuit connections

Humidity:

Insulation resistance > 10³ MΩ after 100 hours at 95% R.H. and 50°C followed by 1 hour dry at ambient room conditions

Operating Standards described herein are general specifications that vary depending on the switch construction specified and end application. Contact us for specifications for specific models. Specifications subject to change without notice.