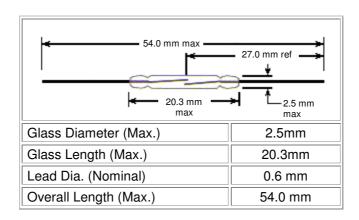
GR100 Reed Switch

- General purpose reed switch with rhodium contacts
- Designed to give superior life switching relatively heavy loads
- Normal applications include liquid level sensors, security systems, reed relays, proximity sensors and counting devices
- Ideally suited to handle normal 120 VAC loads.
- Maintains low contact resistance over life switching light duty logic level loads

Physical Characteristics



Electrical Characteristics

Contact Arrangement	Form A (SPST), Centre Gap		
Contact Material	Rhodium		
Power Rating ¹	10VA maximum		
Switching Current (Max.)	1.0 Amp. DC, 1.0 Amp. AC		
Carry Current (Max.)	1.5 Amp. DC, 1.5 Amp. AC		
Switching Voltage (Max.) 4	100 VDC, 150 VAC		
Breakdown Voltage (Min. @20AT) ²	250 Volts DC		
Contact Resistance ³	100 Milliohms		
Insulation Resistance (Min.)	10 ¹² ohms		
Contact Capacitance (pf Max.)	0.2 pf		

- 1. The specification for VA rating may sometimes be exceeded for less sensitive (higher AT) switches, and should be decreased for very sensitive (lower AT) switches. Standex Electronics will run life tests specific to a customers load upon request.
- 2. Breakdown voltage is measured in the presence of a radioactive ionising source. Switch leakage current is limited to 100 microamperes.
- 3. Contact resistance measurements are made at 10ma from a 1-volt source, with 50% overdrive, using a 4-wire (Kelvin) measuring system. Contact probes are located on 43 mm centres.
- 4. When switching 150 VAC please contact a Standex application engineer.

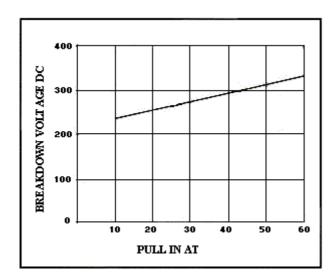
Minimum Switching Life with Standard Test Loads, using 20AT switch

Voltage	5 VDC	10 VDC	12 VDC	24 VDC	100 VDC	125 VAC	150 VAC
Current	2 mA	1 A	10 mA	10 mA	100 mA	80 mA	60 mA
Life	1000 x 10 ⁶	2 x 10 ⁶	100 x 10 ⁶	8 x 10 ⁶	2 x 10 ⁶	2 x 10 ⁶	1 x 10 ⁶
Note: End of life is defined as contact resistance exceeding one ohm and/or failure to operate.							

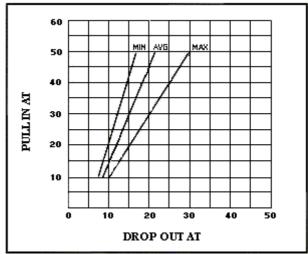
Operating Characteristics

Magnetic Sensitivity (Range - Pull In)	10 to 60 Ampere Turns		
Magnetic Sensitivity (Range – Drop Out)	(See chart below)		
Operate Time, including bounce (typ.)	0.8 Milliseconds		
Release Time (typ.)	0.1 Milliseconds		
Resonant Frequency (typ.)	2.2 kHz		
Vibration, 10-2,000 Hz (G's Max.)	40 G		
Shock, 11-ms. 1/2 Sine wave (G's Max.)	100 G		
Operating Temperature	-40°C to + 125°C		
Storage Temperature	-50°C to + 155°C		

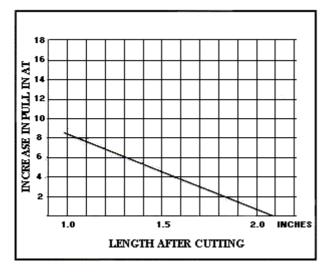
Charts



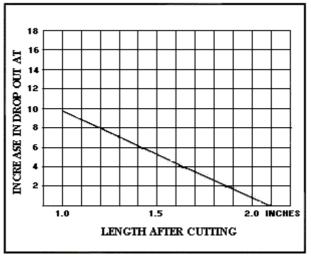
Breakdown Voltage Plotted Against Pull-In Ampere Turns



Pull-In Ampere Turns Plotted Against Drop-Out Ampere Turns



Change In Pull-In Ampere Turns After Switch Lead Cutting



Change In Drop-Out Ampere Turns
After Switch Lead Cutting

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