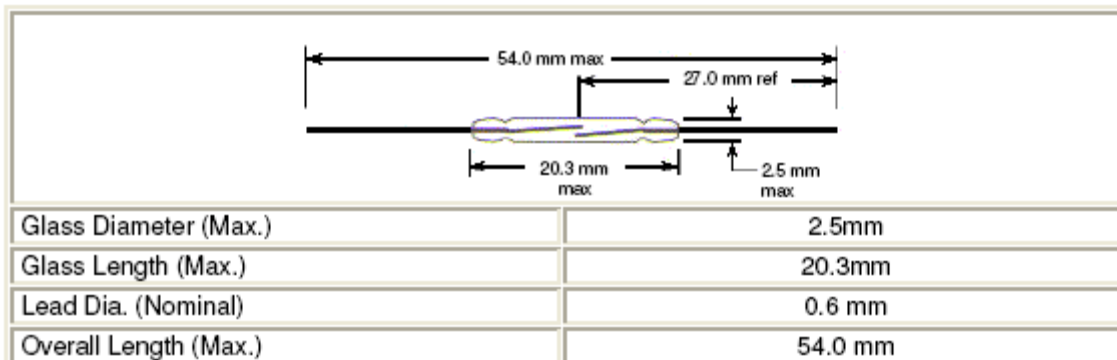


GP100

- General purpose reed switch with PGM alloy 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.
- High stability contact resistance.

Physical Characteristics:



Electrical Characteristics:

Contact Arrangement	Form A (SPST), Centre Gap
Contact Material	PGM alloy
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 an 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

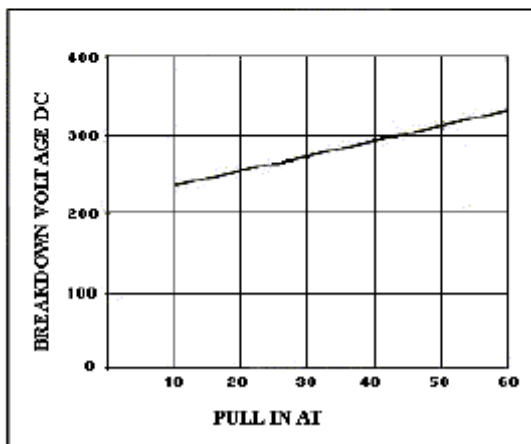
Note: End of life is defined as contact resistance exceeding one ohm and/or failure to operate.

Standex Electronics Inc.		www.StandexElectronics.com	
Cincinnati, Ohio, USA Phone 513 871 3777 Fax 513 871 3779	Tonbridge, UK Phone 44 1732 77 10 23 Fax 44 1732 77 01 22	Tianjin, China Phone 86 22 86 99 68 81-5 Fax 86 22 86 99 68 86	

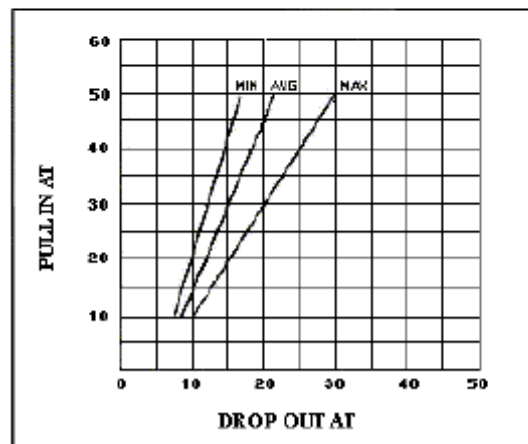
Operating Characteristics

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

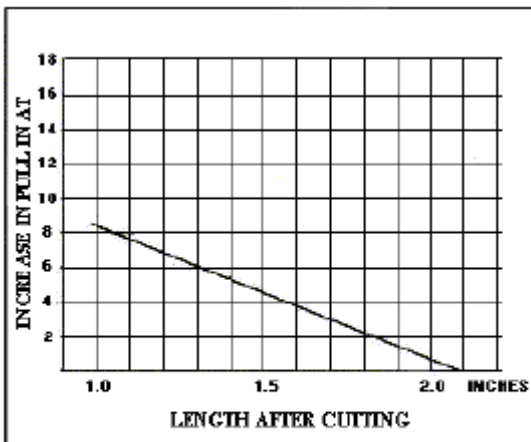
Charts:



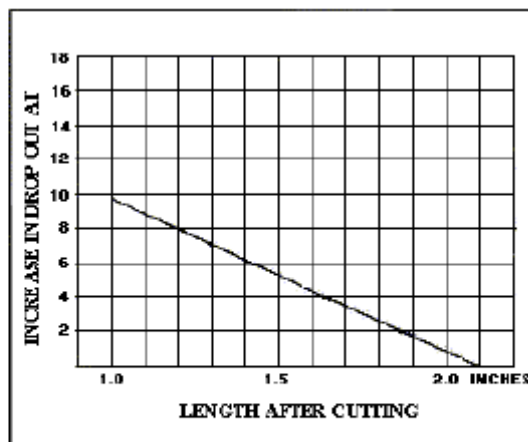
Breakdown Voltage Plotted Against Pull-In Ampere Turns



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