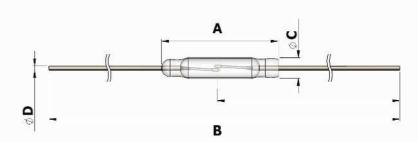


Product Solutions

www.standexmeder.com

GP501 Reed Switch



REACH & RoHS Compliant

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- Professional grade sub miniature reed switch with PGM alloy contacts
- Designed for applications where the available magnetic field is very low
- Useful for "wide-gap" security system applications and other magnetic systems requiring long operating distances with permanent magnets

Physical Characteristics

Α	Overall Length (Max.)	54.0 mm
В	Glass Length (Max.)	12.7 mm
С	Glass Diameter (Max.)	2.3 mm
D	Lead Diameter (Nom.)	0.45 mm

Electrical Characteristics

Contact Arrangement	Form A (SPST), Centre Gap		
Contact Material	PGM alloy		
Power Rating ¹	10VA maximum		
Switching Current (Max.)	0.5 Amp. DC, 0.5 Amp. AC		
Carry Current (Max.)	0.75 Amp. DC, 0.75 Amp. AC		
Switching Voltage (Max.)	100 VDC, 125 VAC		
Breakdown Voltage (Min. @20AT) ²	200 Volts DC		
Contact Resistance ³	150 Milliohms		
Insulation Resistance (Min.)	10 ¹² ohms		
Contact Capacitance (pf Max.)	0.3 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-Meder Electronics will run life tests specific to a customer's 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.

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

Voltage	5 VDC	10 VDC	12 VDC	24 VDC	100 VDC	125 VAC
Current	2 mA	1 A	10 mA	10 mA	100 mA	80 mA
Life	100 x 10 ⁶	0.5 x 10 ⁶	10 x 10 ⁶	2 x 10 ⁶	0.5 x 10 ⁶	0.5 x 10 ⁶
Note: End of life is defined as contact resistance exceeding one ohm and/or failure to operate.						



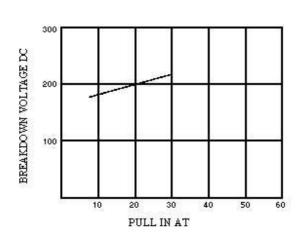
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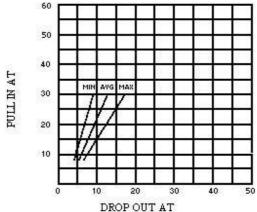
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Operating Characteristics

Magnetic Sensitivity (Range - Pull In)	7 to 30 Ampere Turns		
Magnetic Sensitivity (Range - Drop Out)	(See chart below)		
Operate Time, including bounce (typ.)	1.0 Milliseconds		
Release Time (typ.)	0.1 Milliseconds		
Resonant Frequency (typ.)	3.2 kHz		
Vibration, 10-2,000 Hz (G's Max.)	50 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		

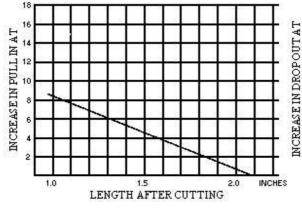
Charts

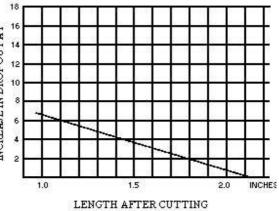




Breakdown Voltage Plotted Against Pull-In Ampere Turns







Change In Pull-In Ampere Turns
After Switch Lead Cutting

Change In Drop-Out Ampere Turns
After Switch Lead Cutting