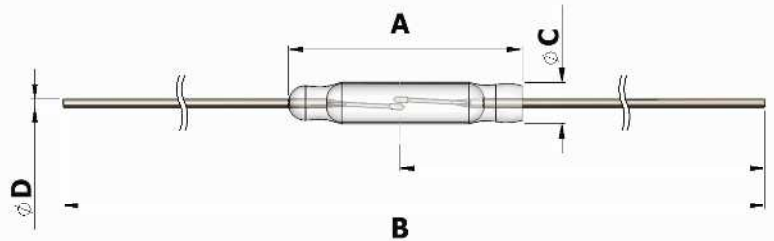


# GP560 Reed Switch



REACH & RoHS Compliant

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- Professional grade general-purpose miniature reed switch with PGM alloy contacts
- Gives superior life switching relatively heavy loads in a miniature glass package
- Has ability maintain low contact resistance over life switching light duty logic level loads
- Normal applications include liquid level sensors, security systems, reed relays, proximity sensors and counting devices

## Physical Characteristics

A	Overall Length (Max.)	54.0 mm
B	Glass Length (Max.)	14.2 mm
C	Glass Diameter (Max.)	2.3 mm
D	Lead Diameter (Nom.)	0.6 mm

## Electrical Characteristics

<b>Contact Arrangement</b>	Form A (SPST), Centre Gap
<b>Contact Material</b>	PMG alloy
<b>Power Rating<sup>1</sup></b>	10VA maximum
<b>Switching Current (Max.)</b>	1.0 Amp. DC, 1.0 Amp. AC
<b>Carry Current (Max.)</b>	1.5 Amp. DC, 1.5 Amp. AC
<b>Switching Voltage (Max.)</b>	100 VDC, 125 VAC
<b>Breakdown Voltage (Min. @20AT)<sup>2</sup></b>	200 Volts DC
<b>Contact Resistance<sup>3</sup></b>	100 Milliohms
<b>Insulation Resistance (Min.)</b>	10 <sup>12</sup> ohms
<b>Contact Capacitance (pf Max.)</b>	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-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

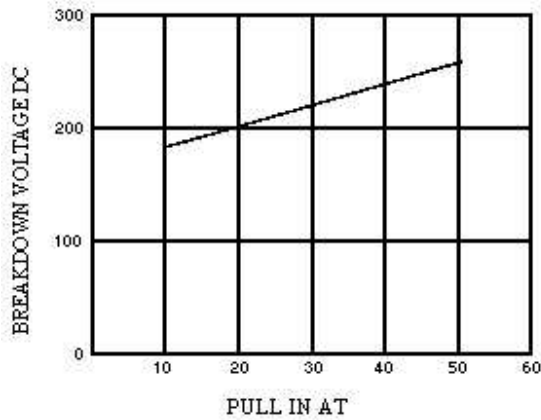
<b>Voltage</b>	5 VDC	10 VDC	12 VDC	24 VDC	100 VDC	125 VAC
<b>Current</b>	2 mA	1 A	10 mA	10 mA	100 mA	80 mA
<b>Life</b>	100 x 10 <sup>6</sup>	1 x 10 <sup>6</sup>	100 x 10 <sup>6</sup>	5 x 10 <sup>5</sup>	1 x 10 <sup>6</sup>	1 x 10 <sup>6</sup>

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

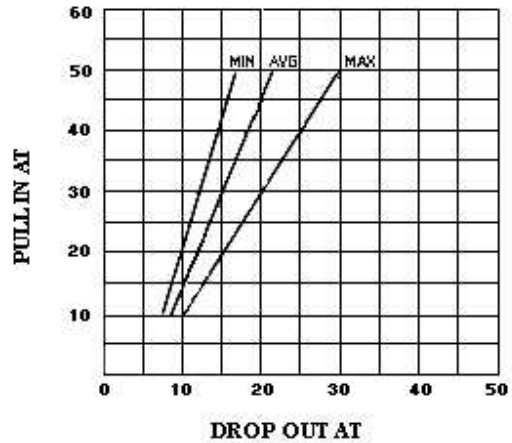
### Operating Characteristics

Magnetic Sensitivity (Range - Pull In)	10 to 50 Ampere Turns
Magnetic Sensitivity (Range - Drop Out)	(See chart below)
Operate Time, including bounce (typ.)	0.6 Milliseconds
Release Time (typ.)	0.1 Milliseconds
Resonant Frequency (typ.)	3.0 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

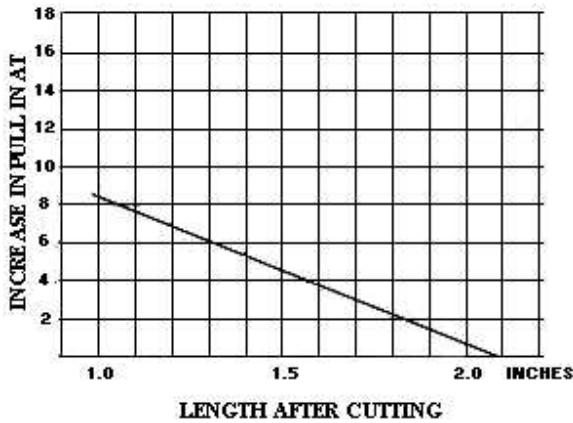
### Charts



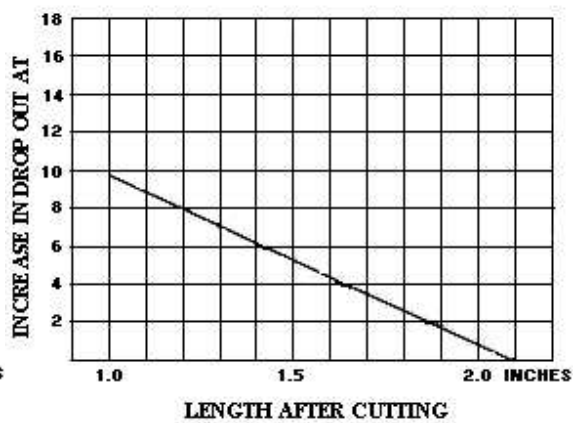
Breakdown Voltage Plotted  
Against Pull-In Ampere Turns



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