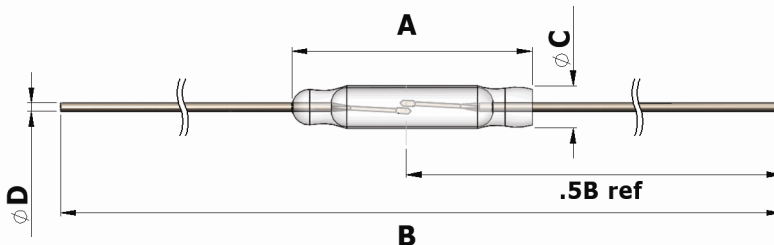


# GR100 Reed Switch



## REACH & RoHS Compliant

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- Professional grade 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

<b>A</b>	<b>Glass Length (Max.)</b>	20.3 mm
<b>B</b>	<b>Overall Length (Max.)</b>	54.0 mm
<b>C</b>	<b>Glass Diameter (Max.)</b>	2.5 mm
<b>D</b>	<b>Lead Diameter (Nom.)</b>	0.6 mm

## Electrical Characteristics

<b>Contact Arrangement</b>	Form A (SPST), Center Gap
<b>Contact Material</b>	Rhodium
<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, 150 VAC
<b>Breakdown Voltage (Min. @20AT) <sup>2</sup></b>	250 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.

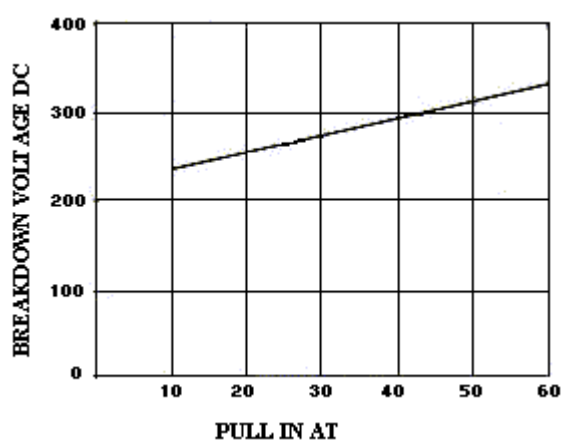
### Minimum Switching Life with Standard Test Loads, using 20AT switch

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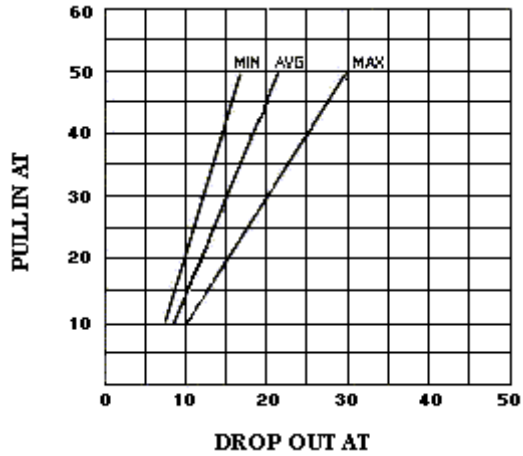
Operating Characteristics

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

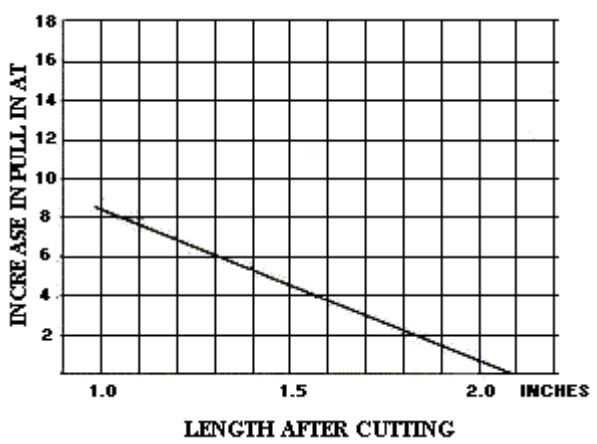
Charts



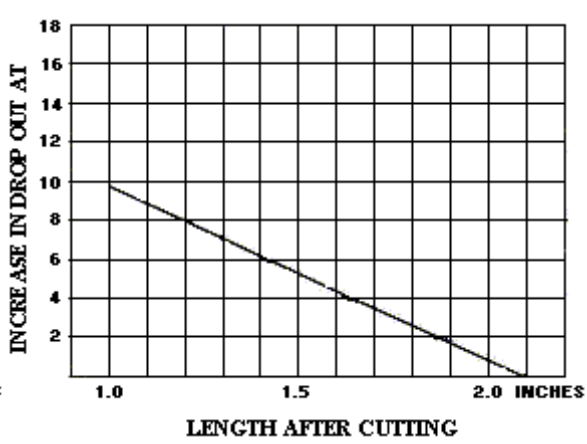
Breakdown Voltage Plotted  
Against Pull-In Ampere Turns



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