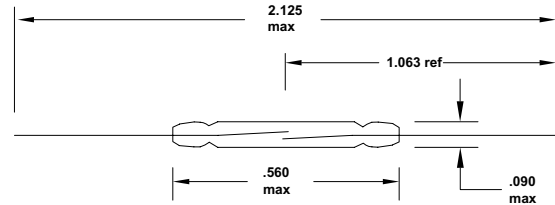


Application – General purpose power reed switch with Rhodium contacts. This switch has been designed to give superior life switching relatively heavy loads in a miniature glass package. This switch also has the ability to maintain low contact resistance over life switching light duty logic level loads. Normal applications include liquid level sensors, security systems, reed relays, proximity sensors and counting devices.

Physical Characteristics

Glass Diameter(Max)	0.090in (2.3mm)
Glass length (Max)	0.560in (14.2mm)
Lead Dia.(Nominal)	0.022in (0.6mm)
Overall length (Max)	2.125in(54.0mm)



Electrical Characteristics

Contact Arrangement	Form A(SPST), Center Gap
Contact Material	Rhodium
(1) Power Rating	10 VA Maximum
Switching Current (Max)	1.0Amp. DC, 1.0 Amp. AC
Switching Voltage(Max)	100 VDC, 120 VAC
(2) Breakdown Voltage (Min.@20AT)	200 Volts DC
(3) Contact resistance	100 Milliohms
Insulation Resistance(Min)	10 ¹² ohms
Contact capacitance (Pf Max)	0.2Pf

Operation Characteristics

Magnetic Sensitivity (Range - pull in)	10 to 50 Ampere Turns
Magnetic Sensitivity (Range - Drop Out)	(see chart)
Operate Time, including bounce (typ.)	0.6Milliseconds
Release Time (typ.)	0.1Milliseconds
Resonant Frequency (typ.)	3.0KHZ
Vibration, 10-2,000HZ(G's Max)	50G
Shock, 11 –ms. 1/2 Sine wave (G's Max)	100G
Operating Temperature	-40°C to +125°C
Storage temperature	-50°C to +155°C

Notes:

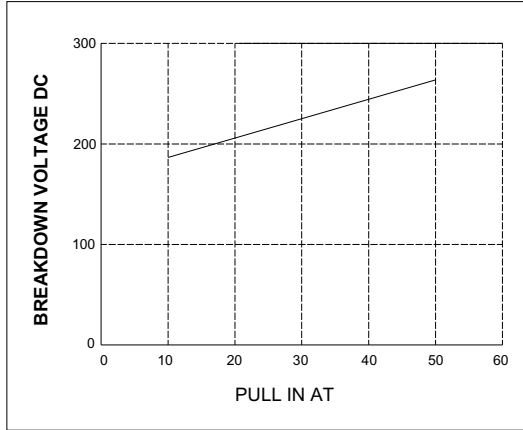
- 1) The specification for VA rating may sometimes be exceeded for less sensitive (higher AT) switches, and should be decreased for very sensitive (lower AT) switches. Standex Electronics will run life tests specific to a customers load upon request.
- 2) Breakdown voltage is measured in the presence of a radioactive ionizing source. Switch leakage current is limited to 100 microamperes.
- 3) Contact resistance measurements are made at 10ma from a 1volt source, with 50% overdrive, using a 4-wire (Kelvin) measuring system. Contact probes are located on 1.7" centers.

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

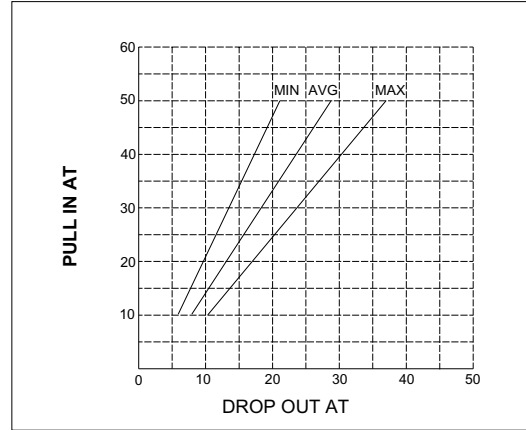
Voltage	5VDC	10VDC	12VDC	24VDC	100VDC	125VDC
Current	2mA	1Amp	10mA	10mA	100mA	80mA
Life	100×10 ⁶	1.0×10 ⁶	100×10 ⁶	5×10 ⁶	1.0×10 ⁶	1.0×10 ⁶

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

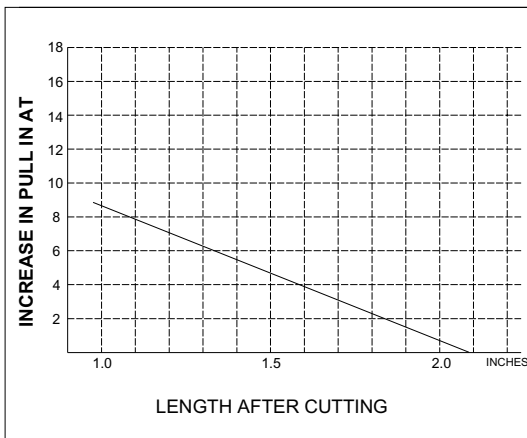
Breakdown Voltage Plotted
Against Pull-In Ampere Turns



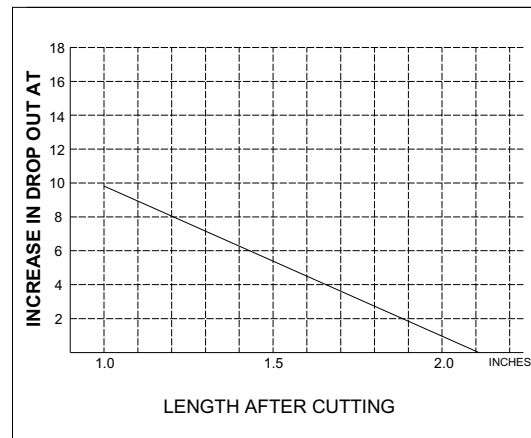
Pull-In Ampere Turns Plotted
Against Drop-out Ampere Turns



Change In Pull-In Ampere Turns
After Switch Lead Cutting



Change In Drop-Out Ampere
After Switch lead Cutting



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