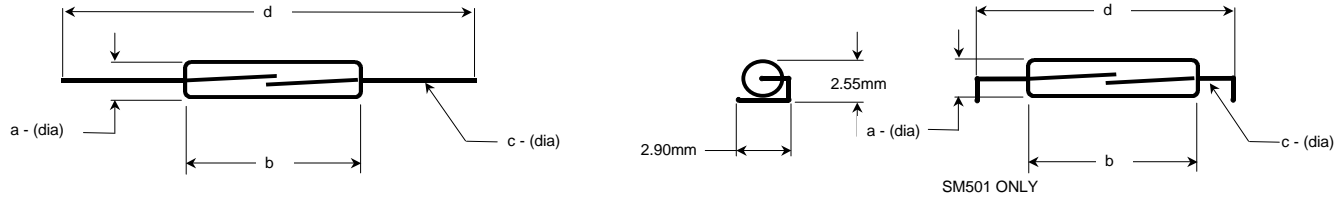


Standex Electronics - Reed Switch Data Chart



Part Name	GR560	GR100	GR501	NR560	NR501	NL126	SM501/T	PR560	PR100	PR126
Physical Characteristics :										
Glass Diameter (Max.) - a	2.3mm	2.5mm	2.3mm	2.3mm	2.3mm	2.5mm	2.3mm	2.3mm	2.5mm	2.5mm
Glass Length (Max.) - b	14.2mm	20.3mm	12.7mm	14.2mm	12.7mm	20.3mm	12.7mm	14.2mm	20.3mm	20.3mm
Lead Dia. (Nominal) - c	0.6mm	0.6mm	0.45mm	0.6mm	0.45mm	0.7mm	0.45mm	0.6mm	0.6mm	0.7mm
Overall Length - d	54.0mm	54.0mm	54.0mm	54.0mm	54.0mm	54.0mm	19.35mm	54.0mm	54.0mm	54.0mm
Electrical Characteristics :										
Contact Arrangement	Form A (SPST)	Form A (SPST)	Form A (SPST)	Form A (SPST)	Form A (SPST)	Form A (SPST)	Form A (SPST)	Form A (SPST)	Form A (SPST)	Form A (SPST)
Contact Material	Rhodium	Rhodium	Rhodium	Rhodium	Rhodium	Rhodium	Rhodium	Rhodium	Rhodium	Rhodium
Power Rating	10 VA maximum (1)	10 VA maximum (1)	10 VA maximum (1)	10 VA maximum (1)	10 VA maximum (1)	50 VA maximum (1)	10 VA maximum (1)	10 VA maximum (1)	10 VA maximum (1)	70 VA maximum (1)
Switching Current (Max.)	1.0 Amp DC & AC	1.0 Amp DC & AC	0.5 Amp DC & AC	1.0 Amp DC & AC	0.5 Amp DC & AC	1.5 Amp DC & AC	0.5 Amp DC & AC	1.0 Amp DC & AC	1.5 Amp DC & AC	1.5 Amp DC & AC
Carry Current (Max.)		1.5 Amp DC & AC				2.5 Amp DC & AC		1.5 Amp DC & AC	1.5 Amp DC & AC	2.5 Amp DC & AC
Switching Voltage (Max.)	100 VDC, 125 VAC	100 VDC, 150 VAC (3)	100 VDC, 125 VAC	100 VDC, 125 VAC	100 VDC, 125 VAC	200 VDC, 150 VAC (3)	100 VDC, 125 VAC	250 VAC, 100 VDC	250 VAC, 100 VDC	300 VAC, 200 VDC
Breakdown Voltage (Min. @20AT)	200 Volts DC	250 Volts DC	200 Volts DC	250 Volts DC	200 Volts DC	250 Volts DC	200 Volts DC	600 Volts DC	750 Volts DC	750 Volts DC
Contact Resistance	100 milliohms (2)	100 milliohms (2)	150 milliohms (2)	100 milliohms (2)	150 milliohms (2)	100 milliohms (2)	150 milliohms (2)	100 milliohms (2)	100 milliohms (2)	100 milliohms (2)
Insulation Resistance (Min.)	10 ¹² Ohms	10 ¹² Ohms	10 ¹² Ohms	10 ¹² Ohms	10 ¹² Ohms	10 ¹² Ohms	10 ¹² Ohms	10 ¹² Ohms	10 ¹² Ohms	10 ¹² Ohms
Contact Capacitance (pf Max.)	0.2 pF	0.2 pF	0.3 pF	0.2 pF	0.3 pF	0.3 pF	0.3 pF	0.2 pF	0.2 pF	0.3 pF
Operating Characteristics :										
Magnetic Sensitivity (Range - Pull In)	10 to 50 AT	10 to 60 AT	7 to 30 Ampere Turns	10 to 50 AT	5 to 30 AT	20 to 60 AT	10 to 25 AT	20 to 40 AT	20 to 50 AT	20 to 50 AT
Magnetic Sensitivity (Range - Drop Out)	(see chart)	(see chart)	(see chart)	(see chart)	(see chart)	(see chart)	(see chart)	(see chart)	(see chart)	(see chart)
Operate Time, including bounce (typ.)	0.6 Milliseconds	0.8 Milliseconds	1.0 Milliseconds	0.6 Milliseconds	1.0 Milliseconds	0.8 Milliseconds	1.0 Milliseconds	0.6 milliseconds	0.8 milliseconds	0.8 milliseconds
Release Time (typ.)	0.1 Milliseconds	0.1 Milliseconds	0.1 Milliseconds	0.1 Milliseconds	0.1 Milliseconds	0.1 Milliseconds	0.1 Milliseconds	0.1 milliseconds	0.1 milliseconds	0.1 milliseconds
Resonant Frequency (typ.)	3.0 kHz	2.2 kHz	3.2 kHz	3.0 kHz	3.2 kHz	2.2 kHz	3.2 kHz	3.0 kHz	2.2 kHz	2.2 kHz
Vibration, 10-2000Hz (G's Max)	50 G	40 G	50 G	50 G	50 G	30 G	50 G	40 G	40 G	30 G
Shock, 11-ms. 1/2 Sine wave (G's Max.)	100 G	100 G	100 G	100 G	100 G	100 G	100 G	100 G	100 G	100 G
Operating Temperature	-40°C to +125°C	-40°C to +125°C	-40°C to +125°C	-40°C to +125°C	-40°C to +125°C	-40°C to +125°C	-40°C to +125°C	-40°C to +125°C	-40°C to +125°C	-40°C to +125°C
Storage Temperature	-50°C to +155°C	-50°C to +155°C	-50°C to +155°C	-50°C to +155°C	-50°C to +155°C	-50°C to +155°C	-50°C to +155°C	-50°C to +155°C	-50°C to +155°C	-50°C to +155°C
Typical Applications	Liquid level sensors, security systems, reed relays & proximity sensors	Liquid level sensors, security systems, reed relays & proximity sensors.	Where magnetic field is very low, ideal for sensitive reed relays, "wide - gap" security systems, magnetic systems requiring long operating distances with permanent magnets.	Liquid level sensors, security systems, reed relays, proximity sensors & counting devices.	Where magnetic field is very low, ideal for sensitive reed relays and applications requiring stable contact resistance, "wide - gap" security systems, magnetic systems requiring long operating distances with permanent magnets.	Test equipment, instrumentation, liquid level sensing & incandescent lamp switching.	Pcb surface mount applications & where magnetic field is very low.	High voltage medium power applications	High voltage medium power applications	High voltage high power applications

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) 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 43mm (1.7") centres.
- (3) When switching 150 VAC please contact a Standex application engineer.

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