

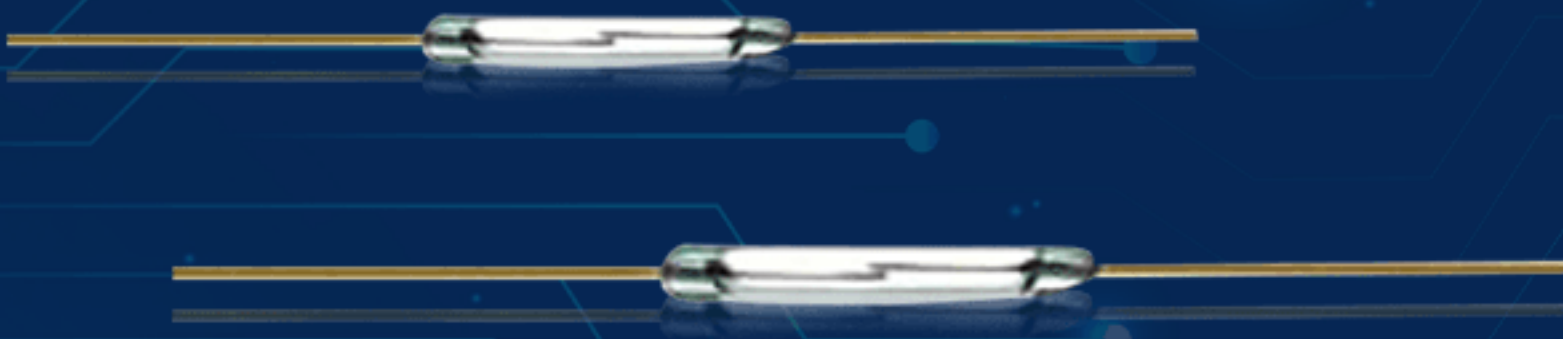
CATÁLOGO DE PRODUTOS RSE

PRODUTO: **REED SWITCH**



RSE
Automação e Componentes Eletrônicos

REED SWITCH



A dry reed switch assembly contains Ferromagnetic contact blades, hermetically sealed in glass envelope which is filled with inert gas. The switch is operated by an externally generated magnetic field, either from a coil or a permanent magnet.



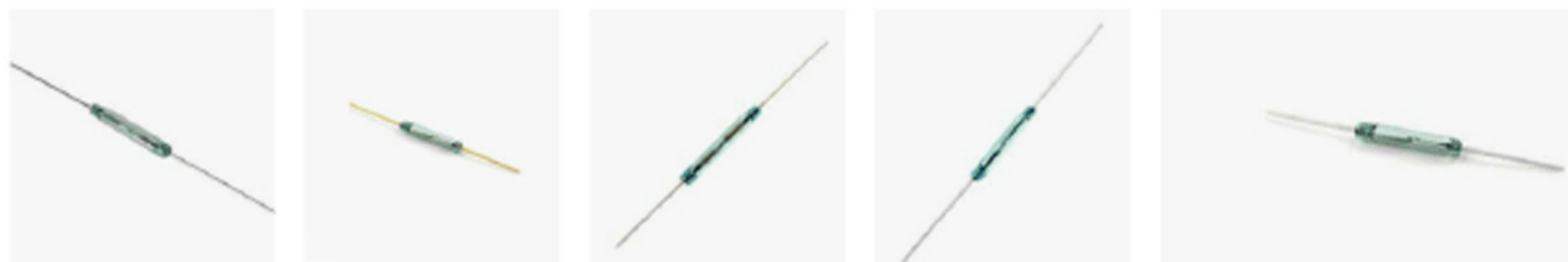
Features

- Long life
- Contacts isolated from the environment
- Superior glass-to-metal seal
- Ambient operating temperature -55 to +125°C
- Low operating power
- Plated ruthenium on diffused gold for very low and stable contact resistance
- Better than 109 Ohms open resistance
- Low cost compared with other magnetic devices.

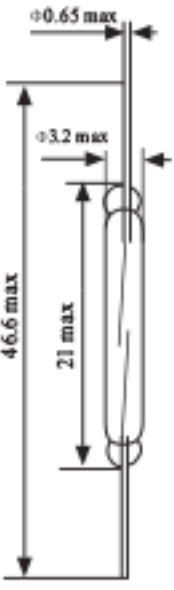
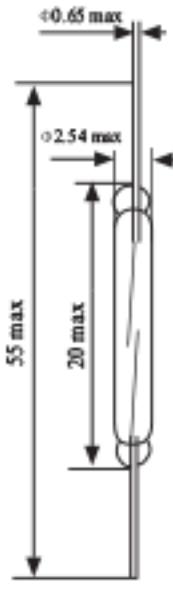
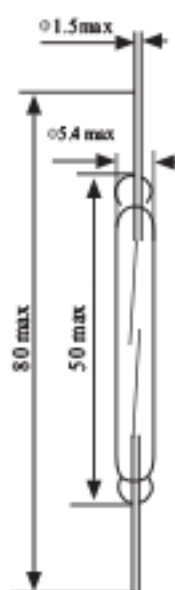
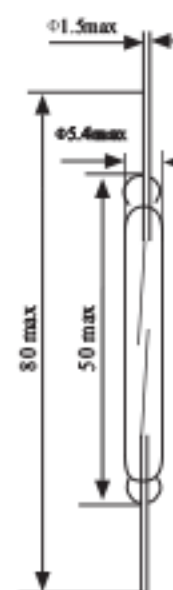
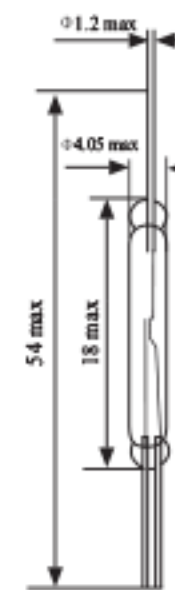
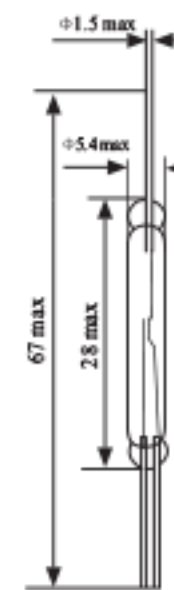
Applications:

Dry-reed switches may be used in a wide range of applications, including:

- Reed relays
- Keyboards
- Key switches
- Automotive applications
- Proximity switches
- Security systems
- Games and toys
- Miscellaneous applications



	Ultra Miniature Reed Switches		Miniature Reed Switches		
Part Number #	RSE-07101	RSE-10109	RSE-14101	RSE-14103	RSE-16101
Dimension Units:mm Professional Grade					
Contact form	1A	1A	1A	1A	1A
Contct Position*1	SYM	SYM	SYM	SYM	SYM
Contact Material	Ru	Ru	Ru	Ru	Ru
Max.Contact Rating	1W	10W	10W	10W	5W (lamp load) 10W (resistive load)
Max.Switching Voltage	24VDC	100VDC	100VDC	100VDC	100VDC
Max.Switching Current	0.1A	0.5A	0.5A	0.5A	0.5A
Max.Initial Contact Resistance	200 m Ohms	100 m Ohms	100 m Ohms	100 m Ohms	100 m Ohms
Pull In Value(AT)	7-35	10-35	10-35	10-35	10-35
Min.Drop oup (AT)	4	4	5	5	5
Min.Breakdown Voltage	150VDC	150VDC	220VDC (AT≤25) 250VDC (AT>25)	220VDC (AT≤25) 250VDC (AT>25)	220VDC
Max.Contact Capacitance	0.4pF	0.5pF	0.7pF	0.7pF	0.3pF
Min.Insulation Resistance	10 ⁹ Ohm	10 ⁹ Ohm	10 ¹⁰ Ohm	10 ¹⁰ Ohm	10 ⁹ Ohm
Typ.Resonant Frequency	12 kHz	5 kHz	5.3 kHz	4 kHz	3 kHz
Electrical Life (Resistive loads)	5×10 ⁷ (50mVDC, 10mA) 2×10 ⁷ (5VDC, 10mA)	5×10 ⁶ (VDC, 10mA) 10 ⁵ (24VDC, 250mA)	10 ⁸ (5VDC, 10mA) 10 ⁵ (24VDC, 400mA)	10 ⁸ (5VDC, 10mA) 10 ⁵ (24VDC, 400mA)	2×10 ⁶ (5VDC, 10 mA) 10 ⁶ (24VDC, 2500mA)
Test Coil: Number of turns Resistance	5000 580 Ohm	5000 580 Ohm	5000 580 Ohm	5000 870 Ohm	5000 620 Ohm
Notes	Gold-plated leads	Gold-plated leads	Gold-plated leads	Gold-plated leads	

	General Application Reed Switches		GHigh Power Reed Switches		Form-C Reed Switches	
Part Number #	KAM-2	RSE-20201	RSE-50201	RSE -50202	KAM-3	MKC-27103
Dimension Units:mm Professional Grade						
Contact form	1A	1A	1A	1A	1C	1C
Contct Position*1	SYM	SYM	SYM	SYM	11.0	17.0
Contact Material	Ru	Ru	Mo	Mo	Ru	Ru
Max.Contact Rating	10W	10W	120W	250W	30W	30W
Max.Switching Voltage	180VDC	180VDC	250VDC	250VDC	125VDC	200VDC
Max.Switching Current	0.5A	0.5A	3A	5A	1.0A	1.0A
Max.Initial Contact Resistance	150 m Ohms	150 m Ohms	150 m Ohms	150 m Ohms	150 m Ohms	150 m Ohms
Pull In Value(AT)	15-64	10-40	50-90	50-100	30-80	45-90
Min.Drop oup (AT)	5	4	20	20	10	16
Min.Breakdown Voltage	250VDC	220VDC (AT≤20) 280VDC (AT<20)	700VDC	700VDC	180VDC (AT≤55) 280VDC (AT<55)	350VDC
Max.Contact Capacitance	0.4pF	0.4pF	10pF	1.0pF	2.5/0.5pF	2.0/1.0pF
Min.Insulation Resistance	10 ⁹ Ohm	10 ⁹ Ohm	10 ⁹ Ohm	10 ⁹ Ohm	0.2 × 10 ⁹ 1 × 10 ⁹ Ohm	0.5 × 10 ⁹ 1 × 10 ⁹ Ohm
Typ.Resonant Frequency	2.4 kHz	2.6 kHz	0.7 kHz	0.7 kHz	3 kHz	2.2 kHz
Electrical Life (Resistive loads)	2 × 10 ⁶ (24VDC, 250mA) 3 × 10 ⁶ (5VDC, 10mA)	1 × 10 ⁶ (24VDC, 250mA) 1 × 10 ⁶ (5VDC, 10mA)	1 × 10 ⁶ (24VDC, 250mA) 1 × 10 ⁶ (220VDC, 500mA)	1 × 10 ⁶ (250VDC, 1A)	5 × 10 ⁵ (24VDC, 250 ³ A) 1 × 10 ⁶ (5VDC, 10A)	5 × 10 ⁵ (30VDC, 100A) 1 × 10 ⁵ (60VDC, 200A)
Test Coil: Number of turns Resistance	5000 550 Ohm	5000 550 Ohm	5000 335 Ohm	5000 335 Ohm	5000 455 Ohm	5000 450 Ohm