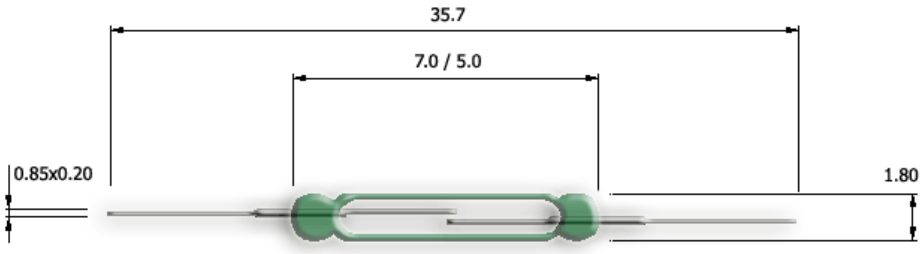
UM-0018 Ultra-miniature Reed Switch

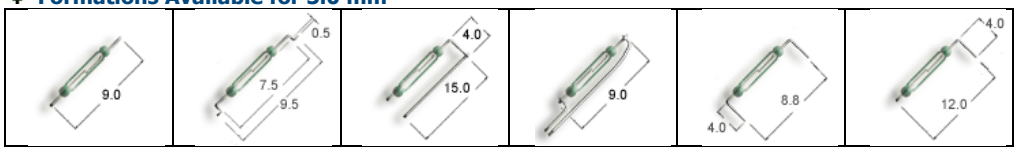
5.0 mm and 7.0 mm Glass, Form A, Center Contact



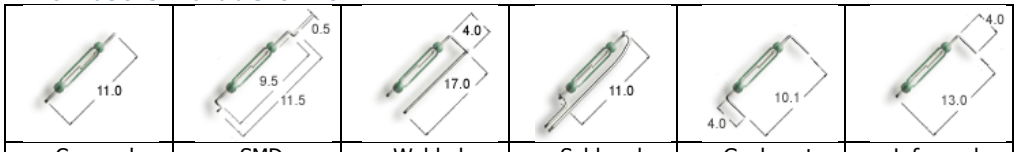
All dimensions in mm

These highly sensitive, form A reed switches are designed for low power, high speed switching applications, where there is a size restriction. The 5 mm glass version is built for use in very compact applications, and the 7 mm glass version is built for lower contact resistance, and can switch higher loads.

Formations Available for 5.0 mm



Formations Available for 7.0 mm



Cropped	SMD	Welded	Soldered	Goal-post	L-formed

Applications

This reed switch is suitable for use in the following applications and many others: dentists drills, reed relays, pacemakers, shock sensors, automobile crash sensors, vane sensors, LEGO sensors, musical greeting cards...

Electrical

Sub code		M	H
Glass Length	mm	5.0	7.0
Operate Range	AT	7 – 20	7 – 20
Release Range	AT	3 – 18	3 – 18
Contact Rating (max)	W/ VA	5.0	10.0
Switching Current (max)	A	0.35	0.5
Carry Current (max)	A	0.5	0.5
Switching Voltage (max)	V_{DC}	100	100
Switching Voltage (max)	V_{AC}	70	70
Breakdown Voltage	V_{DC}	150	150
Initial Contact Resistance (max)	mΩ	200	200
Insulation Resistance (min)	Ω	10^9	10^9
Capacitance (min)	pF	0.2	0.2

Miscellaneous

Operate Time (max)	ms	0.35
Bounce Time (max)	ms	0.3
Release Time (max)	ms	0.1
Resonance Frequency	Hz	>2000
Operating Frequency	Hz	500
Operating Temperature	°C	-40 to +120
Test Coil		717 102 003
Lead out plating		Sn (Pb free)
Shock Resistance	g	30
Vibration (10-2000Hz)	g	20

Ordering Code

UM-0018-(Sub Code)-(Start Operate AT)-(Finish Operate AT)

Example UM-0018-M-15-18
Denotes 5 mm glass length, in 15-18 Operate AT band.

Other Configurations Available

Dynamic contact resistance limit, Higher insulation resistance, Special release limits, Gold plates leads

Please refer to our reed switch usage notes

Due to continual improvement, specifications are subject to change without notice

www.reed-sensor.com

27 August 2008