Reed Switch Specifications

1. Product Model:
XGH-1

2. Standard:
Ensure the quality of products, standardized testing methods and test conditions; implement standardized management of product process.

3. Specification:

3-1 Standard appearance size: Reference (figure-1)
3-1-1 Crack of sealing part: Less than 1 / 3 of sealing part
3-1-2 Bending range of wire before delivery: within glass tube diameter

3-2 Contact coating: Ru coating
3-3 Conductor coating: Ni/Au coating
3-4 Test coil: Total length 13mm, turns 5000t, coil resistance 530ohm
3-5 Electrical characteristics: See the table below,
3-6 Action characteristics: See the table below, 3-
7 Mechanical properties: See the table below, 3-8
Environmental characteristics:See the table below, 3-9
Life characteristics: See the table below, 3-10
Precautions for using

3-5 Electrical characteristics

Test Item	Specifications	Unit	Inspection and Test Conditions
Closure value	10-40	AT	E=5V I=20mA, the switch is consistent with the coil center, 100A first, then return to zero, then measure at value 4 terminal resistance test: closing value × 1.5 times current
Release value	5min	AT	
contact resistance	150max	mohm	
Insulation impedance	1×10^{10}min	ohm	Measure after applying voltage dc100v for 1 minute
Contact withstand voltage	250min	V:DC	Leakage current below 500uA, in 60 seconds
Contact capacity	10	VA/W	
Max.Switching Voltage	200	V • AC/DC	
Max.Switching Current	0.5	V • DC	
Max.power on current	1.0	A	

3-6 Action characteristics

Test Item	Specifications	Unit	Inspection and Test Conditions
Action time	0.4max	msec	1.Square wave drive, coil frequency 100Hz 2.Voltage 5V, current 20mA
Bounce time	0.4max	msec	
Reset time	0.2max	msec	
Maximum driving cycles	500	HZ	
Resonance cycle number	5000±400	HZ	

3-7 Mechanical properties

Test Item	Specifications	Unit	Inspection and Test Conditions
Tensile strength	19	N(kgf)	Apply the specified pulling force is applied vertically for 20 seconds, there is no abnormality in the sealing part.

3-8 Environmental characteristics

Test Item	Specifications	Unit	Inspection and Test Conditions
Operating temperature range	-40～+125	℃	Humidity below 90%(RH)
Storage temperature range	-40～+125	℃	
Hot and cold shock	-10～+65	℃	MIL-STD-202G
Welding heart-resistant propert	265	℃	Heat for 10 seconds at 2.5mm away from the sealing part
Solder tin rate	90	%	260℃, 5s
Impact resistance	480	m/s^2	MIL-STD-202G
Vibration resistance	10～55	Hz	MIL-STD-202G

3-9 Life characteristics

Test Item	Specifications	Unit	Inspection and Test Conditions
Life characteristics	1×10^7	cycles	DC10V-5mA(R)
	5×10^6	cycles	DC12V-500mA®

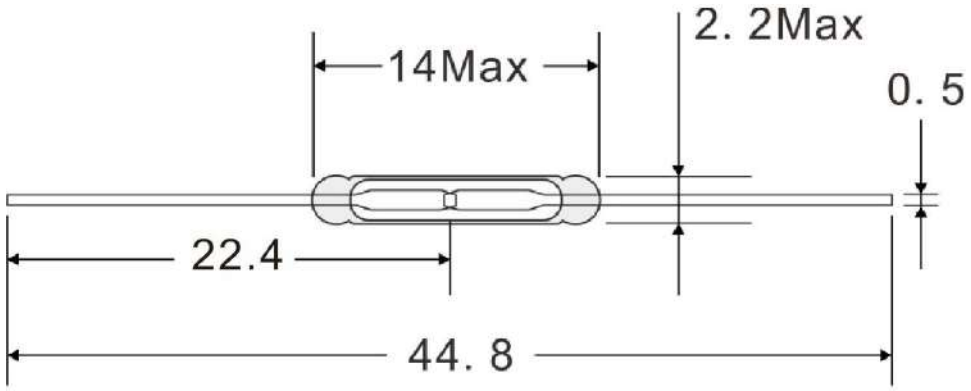
1.The above test standard of (3-5) & (3-6), ensure that the requirements of characteristic specifications are met.

2.The above test standard of (3-7), ensure that the requirements of 3-1-1 are met.

3.The above test standard of (3-8), ensure that the changing of AT is within ± 2AT.

4.The above test standard of (3-9), ensure that the changing of AT is within 15%, and the contact resistance is less than 1.0ohm.

3-1 Figure-1 XC-14 Appearance Dimenson



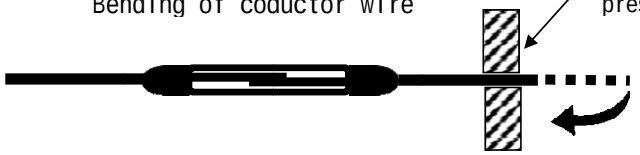
Unit:(mm)

3-10 Precautions for using

3-10-1 Due to the customer's product size requirements, customers will bend and shear the reed switch, so the reed switch must be protected during processing to avoid the change of product characteristics in the process of processing.

Processing precautions

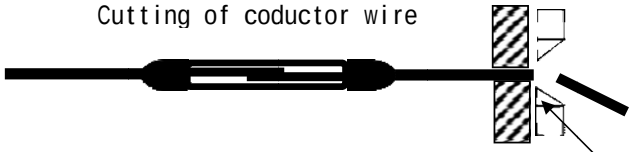
Bending of coductor wire



Fix the fixture up and down, then press the switch and bend it.

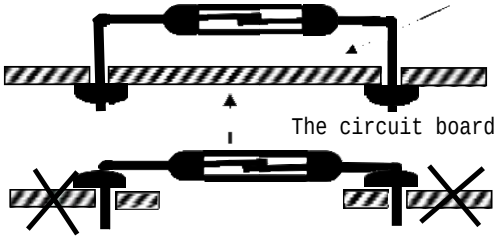
The width of upper and lower pressing fixture is recommended to be 1.5-2.5mm; if it is too thick, the pressure stress of switch will be large.

Cutting of coductor wire



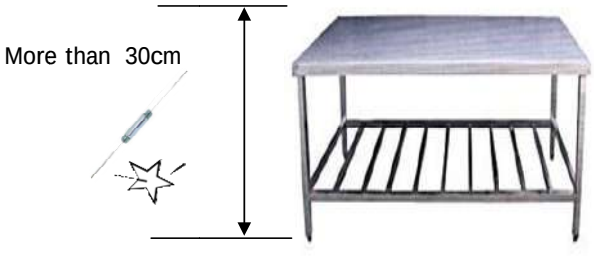
Fix the fixture up and down, then press the switch and cut it.

3-10-2 The circuit board will expand of heat and contract of cold when the ambient temperature changes, and the board will move when it is assembled under external force. It is suggested that the glass tube should be more than 0.5mm away from the circuit board to reduce the impact of external force on the switch.



Suggestions for use on circuit board

3-10-3 Basically, all the reed switch manufacturers are the same: If the reed switch is above a certain height and falls to the ground, the characteristics of the switch will be changed. Please pay attention to it in the use process.



3-10-4 Management of storage place:

1. Avoid direct sunlight.
2. No corrosion environment, air flow environment.
3. Temperature: 5-35 ℃.
4. Humidity: 20-70% RH.