

ORD312 REED SWITCH

High-power long-life

- The ORD312 is a small single-contact reed switch designed for general control of medium level loads less than 200V. The contacts are sealed within the glass tube with inert gas to maintain contact reliability.



ORD312 High-power long-life

Applications

- Automotive electronic devices • Communication equipment • Household appliances
- Control equipment • Measurement equipment

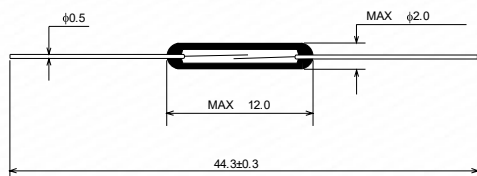
FEATURES

- Hermetically sealed within a glass tube with inert gas, reed contacts are not influenced by the external atmospheric environment.
- Quick response
- Comprising of operating parts and electrical parts arranged coaxially, reed switches are suited to high-frequency applications.
- Compact and light weight.
- Superior corrosion resistance and wear resistance of the contacts assures stable switching operation and long life.
- Economically and easily becomes a proximity switch when paired with a magnet.

ELECTRICAL CHARACTERISTICS

Parameter	Rated Value	Unit
Pull-in Value (PI)	10 to 40	AT
Drop-out Value (DO) (min.)	5	AT
Contact Resistance (CR) (max.)	100	mOhm
Breakdown Voltage (min.)	250	VDC
Insulation Resistance (min.)	10 ⁹	Ohm
Electrostatic Capacitance (max.)	0.3	pF
Contact Rating	30	VA
Maximum Switching Voltage (max.)	200DC/100AC	V
Maximum Switching Current (max.)	0.5	A
Maximum Carry Current (max.)	1.0	A

EXTERNAL DIMENSIONS (Unit: mm)



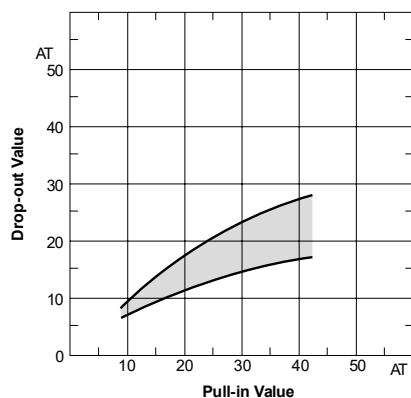
OPERATING CHARACTERISTICS

Parameter	Rated Value	Unit
Operate Time (max.)	0.4	ms
Bounce Time (max.)	0.3	ms
Release Time (max.)	0.05	ms
Resonant Frequency	5900 ± 400	Hz
Operating Frequency (max.)	500	Hz

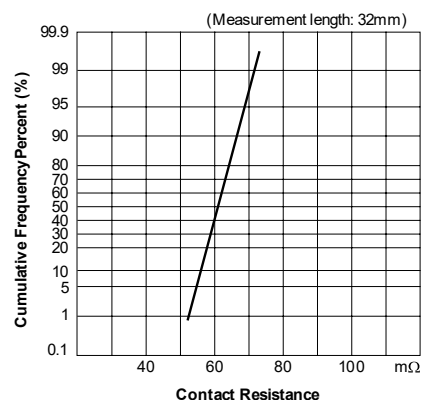
ORD312 REED SWITCH

ELECTRICAL CHARACTERISTICS

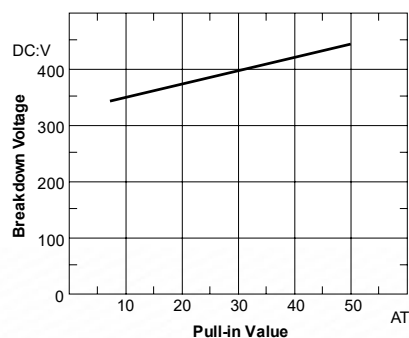
Pull-in Value vs. Drop-out Value



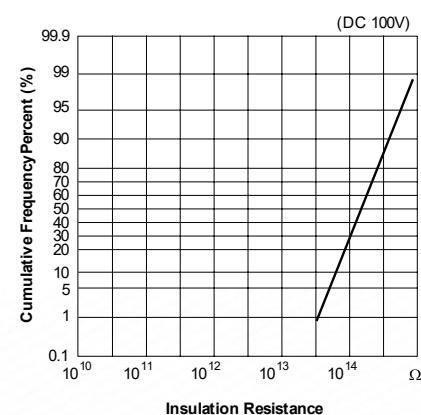
Contact Resistance



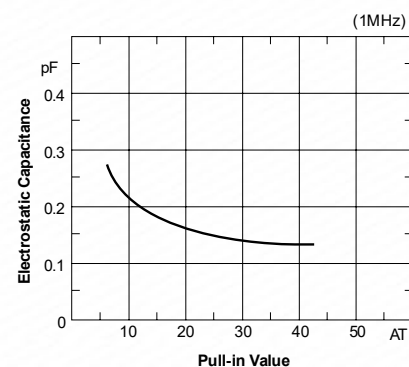
Breakdown Voltage



Insulation Resistance



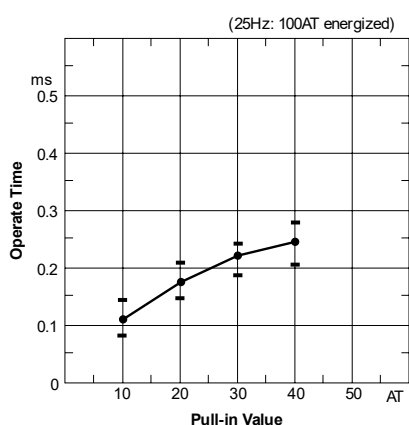
Electrostatic Capacitance



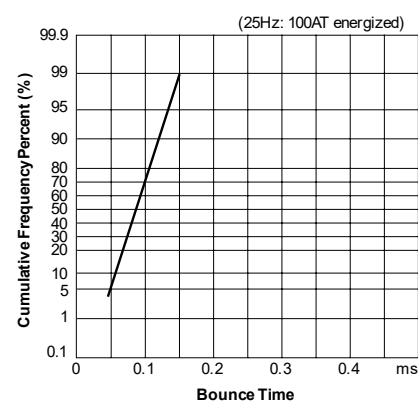
ORD312 REED SWITCH

OPERATING CHARACTERISTICS

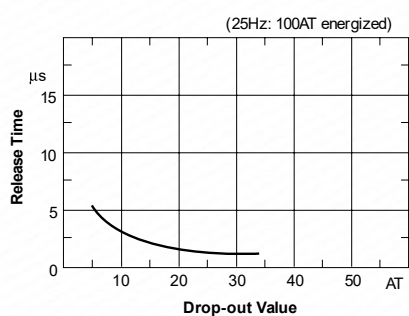
Operate Time



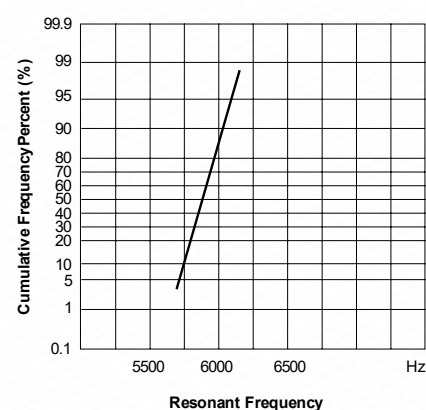
Bounce Time



Release Time



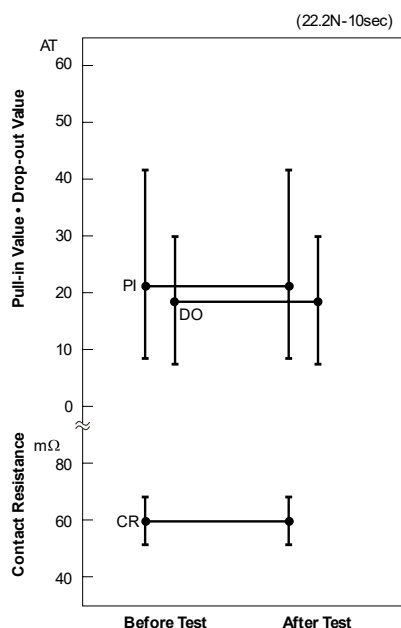
Resonant Frequency



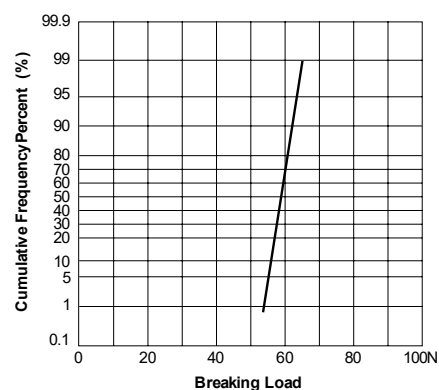
ORD312 REED SWITCH

MECHANICAL CHARACTERISTICS

Lead Tensile Test (Static Load)



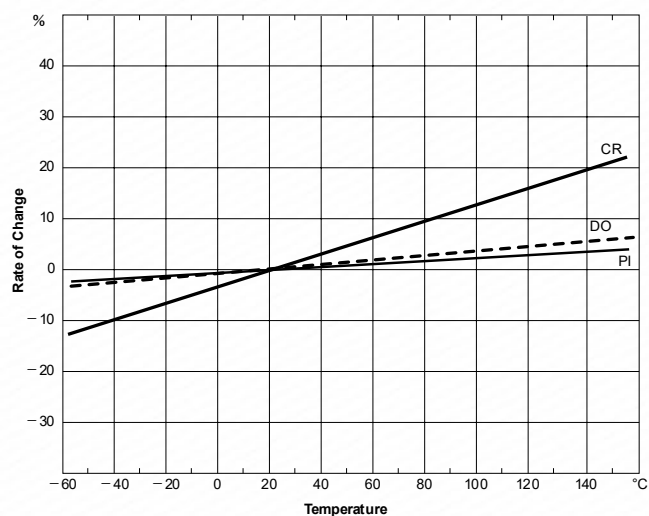
Lead Tensile Strength



ENVIRONMENTAL CHARACTERISTICS

Parameter	Rated Value	Unit
Temperature range	-40 to +125	°C
Shock (11ms)	294(30G)	m/s ²
Vibration (10~2000Hz)	196(20G)	m/s ²
Lead tensile strength	19.6(2.0kgf)	N

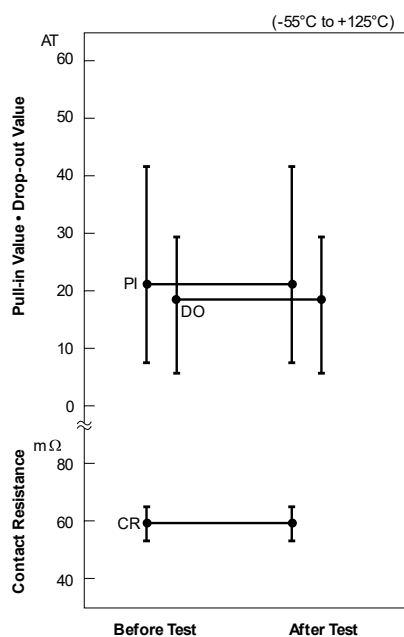
Temperature Characteristics



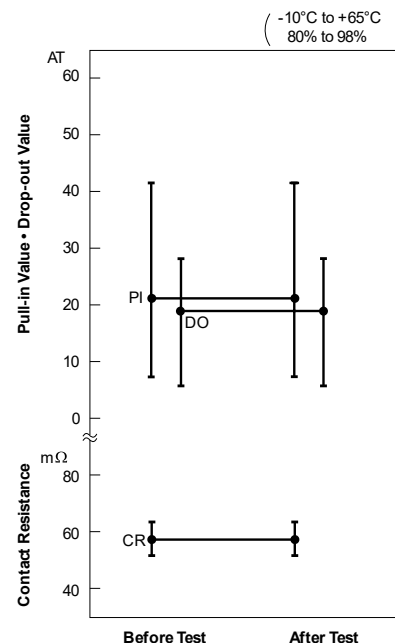
ORD312 REED SWITCH

ENVIRONMENTAL CHARACTERISTICS

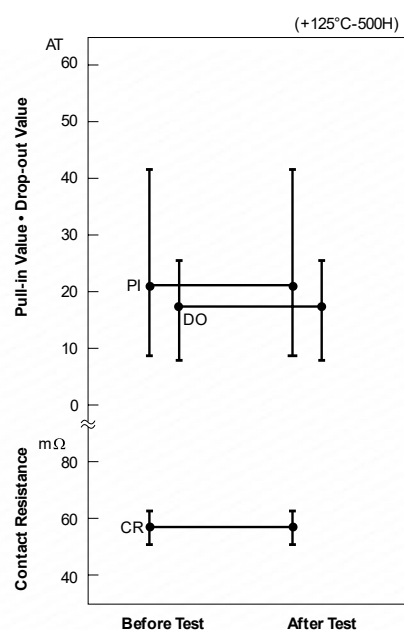
Temperature Cycle



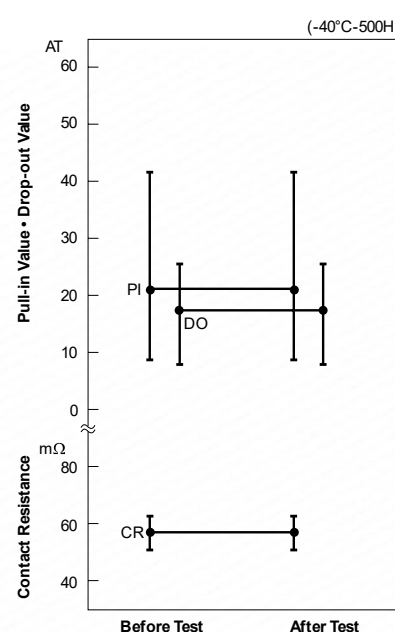
Temperature and Humidity Cycle



High Temperature Storage Test



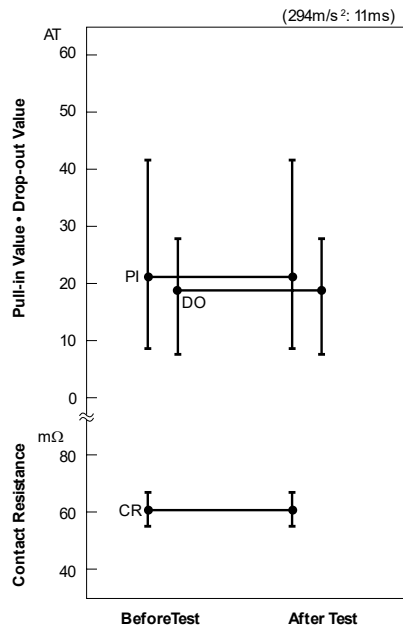
Low Temperature Storage Test



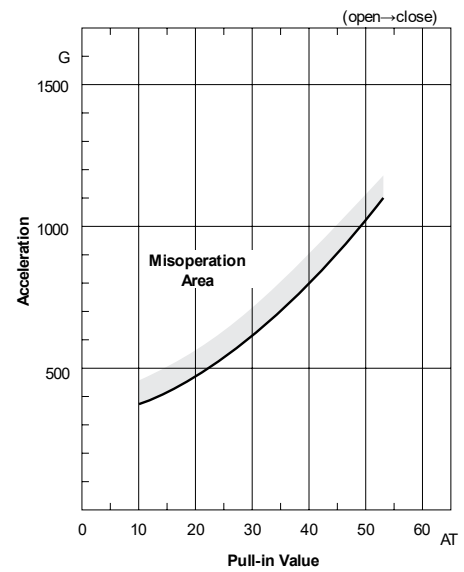
ORD312 REED SWITCH

ENVIRONMENTAL CHARACTERISTICS

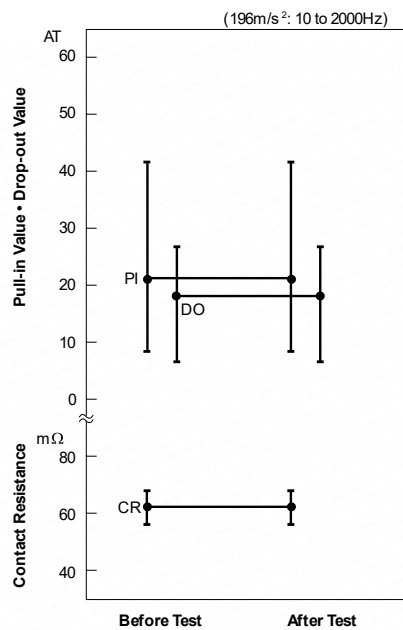
Shock Test (Electrical Characteristics)



Shock Test (Misoperation Area)



Vibration Test



Please note: All technical specifications on this datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

This datasheet could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These change will be incorporated in future revisions.

For deviating values, most current specifications and products please contact your nearest sales office.