

Standex

KOFU

High Quality Reed Switches

Reed Switch Product Line

Miniature Reed Switches

ORD213

ORD211

ORD219

Standard Reed Switches

ORD221

ORD324

ORD324H

ORD624

ORD9215

High Power Reed Switches

ORD229

ORD2210

ORD2210V

Lamp Load Reed Switches

ORD2211

ORD2211H

Long Life Reed Switches

ORD228VL

ORD311

ORD312

SPDT Transfer Reed

Switches

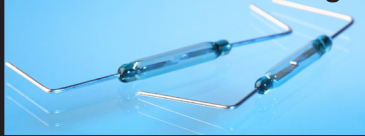
ORT551

ORT551-1

Surface Mount

MK24

Custom Lead Forming



 UL File No. E70063

ISO9001 & ISO14001 Certified

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REED REX

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REED SWITCH DATA SHEET

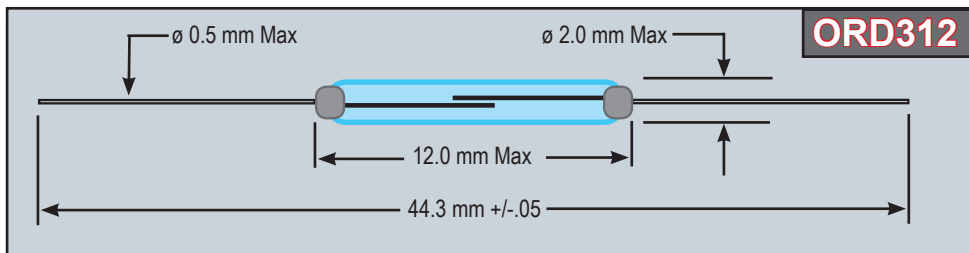
ORD312



High Power Long Life OKI Reed Switch

ORD312 is a 12mm high performance long life single contact hermetically sealed reed switch for loads less than 200 Volts. Pull-in 10-40 AT, Drop-out minimum 5 AT. Contact rated for 30 Volt Amps with Iridium (Ir) contacts engineered for long life. Low contact resistance (CR) less than 100mΩ. Can switch or carry as low as 10 nano-Volts (10^{-9} Volts) without signal loss. Can switch or carry as low as 1 femt-Amp (10^{-15} Amps) without signal loss. Electrostatic Capacitance is less than 0.3 pF. Consumes no power in open position. Insulation Resistance is above 1 giga-ohm ($10^9 \Omega$).

Operation Temperatures: -55°C (-67°F) to $+100^{\circ}\text{C}$ (212°F). Tolerant of harsh environments including salt spray, water, humidity, gaseous & chemical fumes, oil, fuel, and dust-laden atmospheres. Shock resistant above 20Gs.



| Parameter | Specification | Unit of Measure |
|------------------------------|----------------------|-------------------|
| Pull In Value (PI) | 10-40 | Ampere Turns (AT) |
| Drop Out Value (DO) | 5 minimum | Ampere Turns (AT) |
| Contact Resistance | 100 maximum | Milliohms (mΩ) |
| Breakdown Voltage | 250 minimum | Volts DC (VDC) |
| Insulation Resistance | 10^9 minimum | Ohms (Ω) |
| Electrostatic Capacitance | 0.3 maximum | Picofarads (pF) |
| Contact Rating | 30 | Volt-ampere (VA) |
| Max Switching Voltage | 200 DC / 100AC | Volts (V) |
| Max Switching Current | 0.5 | Amps (A) |
| Max Carry Current | 1.0 | Amps (A) |
| Response Time | 0.4 maximum | Milliseconds (ms) |
| Bounce Time | 0.3 maximum | Milliseconds (ms) |
| Release Time | 0.05 maximum | Milliseconds (ms) |
| Resonant Frequency | 5,900 +/-400 | Hertz (Hz) |
| Max Operating Frequency | 500 | Hertz (Hz) |
| Minimum Expected Switch Life | 500 million switches | 5 VDC @ 10mA |

For Additional Specifications, www.reed-rex.com/okireedswitchdatabook