

Reed Switch specifications

Model No: LDW-1010

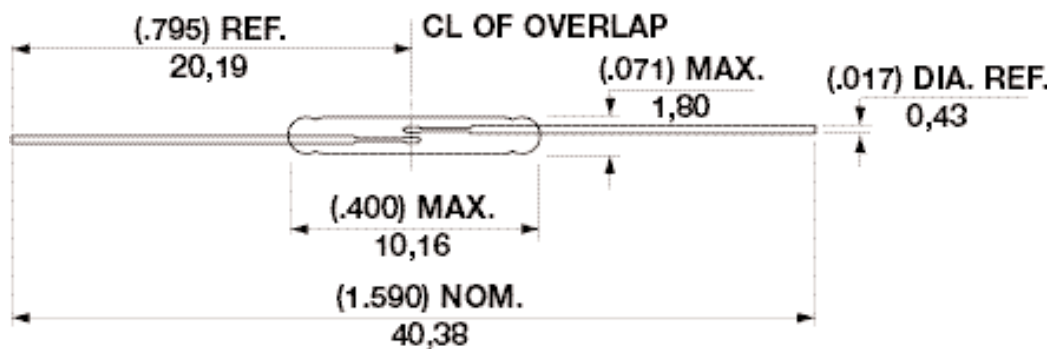
Features

- The LDW-1010 is a ultra small single-contact reed switch designed for general control of medium-level loads less than 70V.

Applications

- Automotive electronic devices
- Rotation and speed Monitoring
- Door and Window Contacts for Security System
- Communication equipment
- Measurement equipment

Dimensions



Outer Dimension	Glass Diameter (Max.)	1.8	mm
	Glass Length (Max.)	10.16	mm
	Lead Diameter (Nominal)	0.43	mm
	Overall Length (Max.)	40.38	mm

Electrical Characteristics

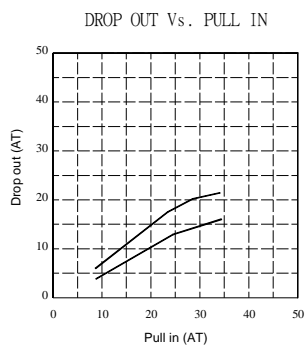
Contact form		SPST Form A Center gap
Contact material		Ruthenium
Switching power	(max.)	10 VA
Switching current	(max.)	0.5 Amp. DC 0.5Amp. AC
Carry current	(max.)	1.0 Amp. DC 1.0Amp. AC
Switching voltage	(max.)	200 VDC
Breakdown voltage	(min.)	250 VDC
Contact resistance	(max.)	200 Miniohms
Insulation resistance	(min.)	10 ¹² Ohms
Contact capacitance	(max.)	0.2 pF
Operate time including bounce	(typ.)	1.0 ms
Release time	(typ.)	0.1 ms
Pull In range		10 – 25 AT
Drop Out		35 – 90%

Note: 1. The specification for VA rating may be exceeded for less sensitive (High AT) switches, and should be decreased for very sensitive (Low AT) switches. Specific life testing for a particular load will be run upon request.

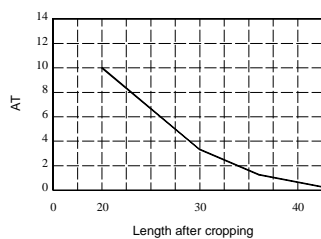
2. Breakdown voltage is measured in the presence of a radioactive ionizing source with leakage current limited to 100 microamperes.

Physical Characteristics

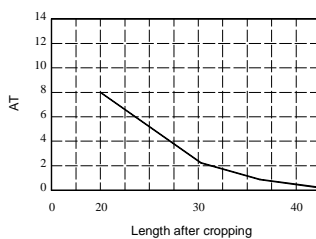
Operating temperature	-40°C to +125°C
Storage temperature	-60°C to +125°C
Vibration 10 – 2000 Hz (G ' S MAX)	50g
Shock 11ms. ½ Sine wave (G ' S MAX)	100g
Resonant frequency (TYP.)	8.5 KHz
Switching frequency (MAX.)	200 Hz



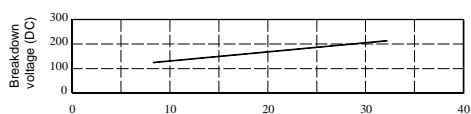
Change in PULL IN Vs. Lead Length
(Increase in PULL IN)



Change in DROP OUT Vs. Lead Length
(Increase in DROP OUT)



Breakdown Voltage Vs. PULL IN (AT)

**Minimum Life Expectancy**

Load	5V DC 2mA	10V DC 1A	12V DC 10mA	24V DC 10mA	48V DC 50mA	70V DC 20mA
Life	100×10^6	0.5×10^6	10×10^6	2×10^6	0.5×10^6	0.5×10^6

End of Life Definition

1. Contact resistance above 1 ohm.
2. Failure to open (sticking).