



REED SWITCH BASICS PART II



PARTNER | SOLVE | DELIVER®

Introduction

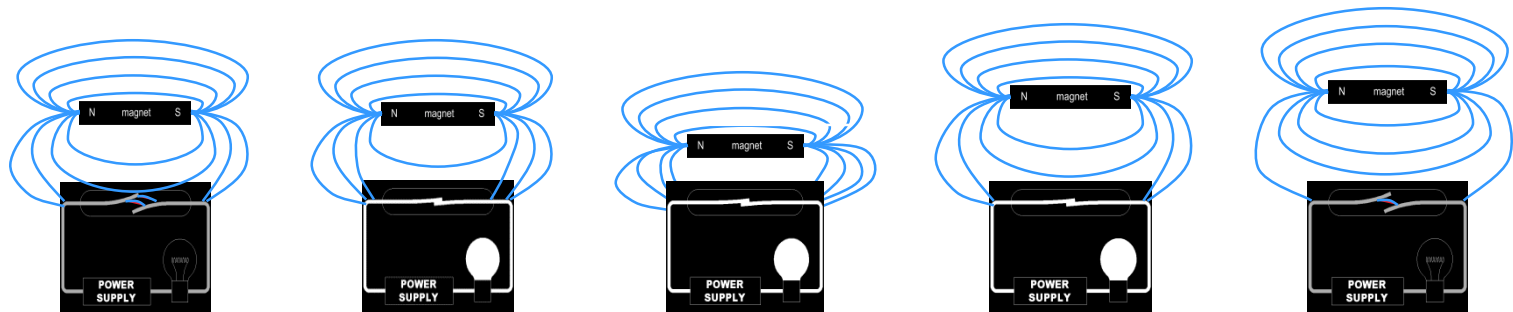
Table of Contents

- › Reed Switch Operating Characteristics
 - › Pull-in / Drop-out
 - › Hysteresis
- › Reed Switch Parameters

Reed Switch Operating Characteristics

Pull-in / Drop-out

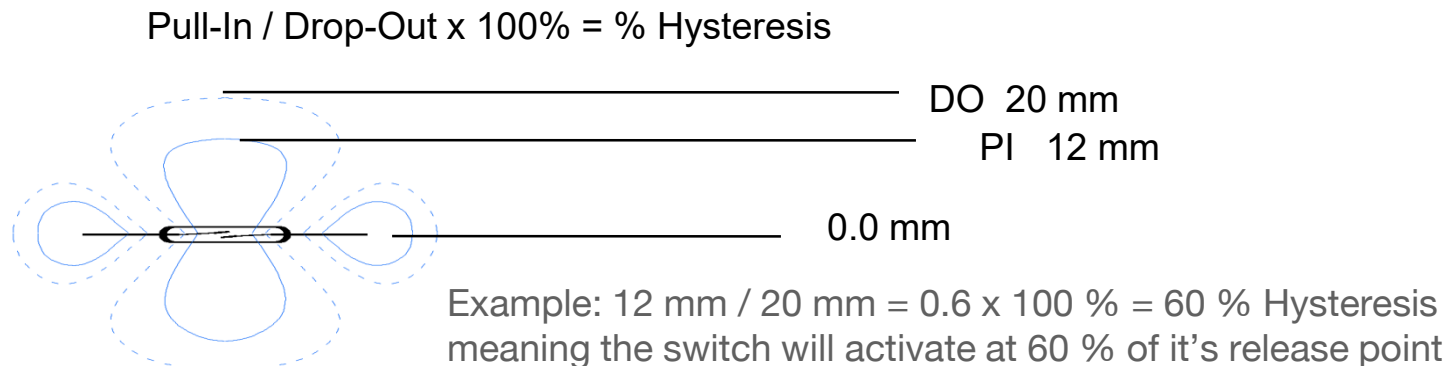
- › Pull In (PI) – is the point where the reed switch contacts close
- › Drop out (DO) is the point where the reed switch contacts open



Reed Switch Operating Characteristics

Hysteresis

- › Hysteresis can be a very important parameter in reed sensors, particularly when sensing liquid levels
- › If the liquid being measured is in any type of moving vehicle or a vibrating environment, the hysteresis can play an important role in a successful application
- › Once the sensing takes place the hysteresis will keep it in that state even after a considerable movement of the liquid level.



Reed Switch Parameters

Contact Parameters	
Rated Power (Watts)	up to 100
Switching Voltage (Volts DC/AC)	0 to 10,000
Breakdown Voltage (Volts DC)	200 to 15,000
Switching Current (Amps)	0 to 3.0
Carry Current (Amps)	0 to 15.0
Contact Resistance (milliOhms)	< 100
Isolation Resistance (Ohms)	up to 10E15
Operating Time (milliseconds)	< 1.0
Release Time (microseconds)	< 50
Capacitance (picoFarad)	0.2 typical

Reed Switch Parameters

- › Pull-In (PI)
- › Drop-out (DO)
- › Hysteresis
- › Switching voltage
- › Breakdown voltage
- › Common mode voltage
- › Switching current
- › Carry current
- › Insulation resistance
- › Capacitance
- › Lifetime

Reed Switch Basics Part II - END

Content of part III:

- › Dynamic Contact Resistance
- › The Reed Switch as Reed Relay
- › The Reed Switch as Reed Sensor

PARTNER | SOLVE | DELIVER[®]

**FOR MORE INFORMATION ON OUR CAPABILITIES,
AND HOW WE CAN PARTNER, SOLVE, AND DELIVER[®]
TO YOUR NEEDS, PLEASE VISIT US AT**

[STANDEXELECTRONICS.COM](https://www.standexelectronics.com)