

# COMUS



## RI-80 SMDH HOUSED SMD REED SWITCHES

From the Comus Group of Companies

### FEATURES

- ATE Grade switches only for highest quality.
- 100 % galvanic isolation
- Hermetically sealed
- Ambient Operating Temperature
- Resistant to Ambient Environment Conditions

### Available Styles

- G1 Model (Gull Wing)
- G2 Model (Gull Wing)
- J-Lead Model



One of the world's smallest reed switches, the RI-80SMDH is protected by a robust plastic housing, allowing the user the ease of mounting without having to worry about undue stress robotic pick and placing can cause in their automated process.



The COTO reed switch line is recognized as the only true ATE (automatic Test Equipment) grade quality switch line; an aspect that many customers have come to rely on in their applications. The world's demand for sensors and on board computer systems with a wide variety of functions is rising. Such devices need to maintain even smaller profiles, due to which we are seeing an increased demand for smaller reed switches which can maintain the same quality, load handling capabilities and durability. Even with the housing added, the RI-80 package stands at a mere 7.1 mm length overall.



Reed switches, unlike other magnetic sensing devices such as Hall Effect sensors, require no power to operate. This, coupled with their very high value to price comparison makes them an ideal choice when an application requires high reliability with little to no power availability.



### APPLICATIONS (examples listed below):

- Consumer Electronic devices: Notebook computers, cellular phones, copiers
- Security: doors, windows, smoke and Carbon monoxide detectors
- Toys: Electronic board games, LEGO sensors, bicycle speedometers
- Industrial applications: pressure gauges, flow meters, liquid level sensors
- White Goods: coffee machines, humidifiers, water and detergent level indicators for washing machines and dish washers

One key example of the use of our RI-80SMDH in White Goods is a washing machine. For this application the switch must determine when the machine door is open or closed. The reed switch is placed in the washing machine's door frame and a magnet in the door. As a standard feature the reed switch will not allow the machine to operate should the start button be accidentally pressed while the door is open for loading or unloading. Also if the door should open while the washing machine is in motion, the reed switch also serves as a safety device, bringing the machine to a quick halt.