



## **DESCRIPTION**

Coto Technology's FR dry reed switch series is ideally suited for small switching signal applications. This switch has sputtered ruthenium contacts and an extraordinary seal strength, achieved by a patented laser sealing of the glass. In low level or dry switching environments, the FR reed switch typically provides > 1 billion operations.

## **FEATURES**

- Small size
- SMT-compatible
- ·Easily formed leads
- Sputtered ruthenium contacts
- Hermetically sealed contacts
- •Fast switching speed up to 500Hz
- •Wide range of available magnetic sensitivities
- •Rectangular glass for superior pick and place performance
- ·Lead-free Tin plating
- •UL Recognized under UL File BP6039
- •RoHS Compliant



#### **APPLICATIONS**

- Security
- -proximity sensing
- -smoke alarms
- Automotive
- -level sensor
- -lamp current sensor
- Relays

## **SPECIFICATIONS**

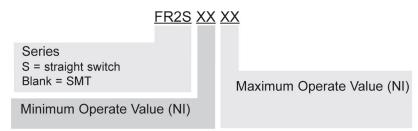
Parameters	Conditions	Min	Тур	Max	Units
Contact Ratings Operate ampere turns range Release ampere turns range Switching Voltage Switching Current Carry Current Contact Rating Life Expectancy  Static Contact Resistance Contact Material	+/-1.5 NI +/-1.5 NI Max DC/PeakAC Resistive Max DC/PeakAC Resistive Max DC/PeakAC Resistive Max DC/PeakAC Resistive 1V, 10mA Signal Level 10V, 10mA Low Level 50V, 100mA Telecom Load 100V, 100mA Rated Loads 50mV, 10mA	10 5	1000 500 2 2 80 Ru	30 30 200 0.5 1.5 10	NI NI VDC Amps Amps VA x106 Ops x106 Ops x106 Ops x106 Ops mOhms
Switch Specifications Insulation Resistance Capacitance Dielectric Strength Operate Time, including bounce Release Time	100V, 25°C, 40% RH Across Open Contacts Between Contacts At nominal coil voltage, 10Hz Square Wave Zener-Diode Suppression	10 <sup>9</sup> 250	10 <sup>11</sup> 0.3 300	0.5	Ohms pF VDC/Peak AC ms
Enviromental Ratings Storage Temperature Operating Temperature Soldering Temperature Vibration Resistance Shock Resistance Weight	11+/-1ms, 1/2 sine wave	-40 -40	0.13	+125 +125 +260 20 100	°C °C °C Gs Gs grams/unit





## **ORDERING INFORMATION**

A complete part number is represented by the digits below



### Surface Mount

Refer to operating characteristics table for a complete part number.

#### **DYAD**

Part #	Operate Range (NI) <sup>1</sup>
FR2S1015	10 to 15
FE2S1020	10 to 20
FR2S1030	10 to 30
FR2S1520	15 to 20
FR2S1525	15 to 25
FR2S2025	20 to 25

<sup>&</sup>lt;sup>1</sup> Tolerance = +/-1.5NI

#### **DYAD Surface Mount**

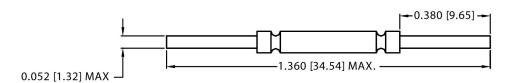
Part #	Operate Range (NI) <sup>1,2,3</sup>	
FR2024	10 to 15	
FR2259	10 to 20	
FR2282	10 to 30	
FR2025	15 to 20	
FR2249	15 to 25	
FR2026	20 to 25	

- <sup>1</sup> Tolerance = +/-1.5NI
- <sup>2</sup> Full Blade Sensitivity

# **MECHANICAL DIMENSIONS**

## Dimensions in incites [Imm]





<sup>&</sup>lt;sup>3</sup> Surface Mount switches are packaged 9,000 parts per rec





# **MECHANICAL DIMENSIONS**

Dimensions in inches [mm]

