

59025 Reed Sensor



Description

The 59025 Reed Sensor is a small cylindrical reed sensor, 25.4 mm (L) x 6.22 mm (Dia.) (1.00" x 0.245"), with a choice of normally open, normally closed or change-over contacts. It is capable of switching up to 265 Vac/300 Vdc at 10 VA. The 59025 Reed Sensor is available with a range of sensitivity and cable length options. It is well suited for use in a wide range of industrial, appliances, or IoT proximity sensing applications.

It functions best with the 57025 actuator.

Features & Benefits

- Non-contact switching solution for wet & harsh environments
- No leakage current in 'open' state—ideal for battery-powered IoT applications
- Helps implement efficient proximity/access and energy management systems
- Compact size and easy installation and effective concealment in many applications
- Hermetically sealed, IP67 rated; UL and REACH compliant
- Can operate through non-ferrous materials (for example, wood, plastic, or aluminum)
- Available in select sensitivities (operating distances)
- Standard cable configurations; customization options available
- UL Recognized per UL 508 and CSA C22.2 No. 14.

Additional Information



Resources



Accessories



Samples

Agency Approvals

Agency	Agency File Number
	E61760

Note: Contact Littelfuse for specific agency approval ratings.

Applications

- Security and access control
- Factory automation
- Process equipment
- Major appliances
- Small appliances
- Proximity and limit sensing

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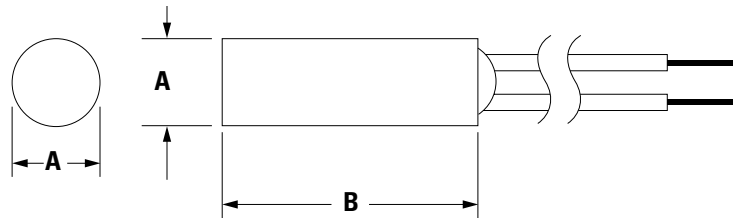
Package Dimensions

Dimensions in mm (inch)

Product	A Nom. mm[in]	B Nom. mm[in]
57025 Actuator	6.22 +/- 0.25 [0.245 +/- 0.010]	25.4 +/- 0.25 [1.00 +/- 0.010]
59025 Sensor	6.22 +/- 0.25 [0.245 +/- 0.010]	25.4 +/- 0.25 [1.00 +/- 0.010]

Material Specifications

Product	Housing Material	Color	Sealing Component
57025 Actuator	30% GF P.B.T	Black	Epoxy
59025 Sensor	30% GF P.B.T	Black	Epoxy



Electrical Ratings

	Contact Type		Normally Open	Normally Open High Voltage	Change Over	Normally Closed
Switch Type	-	-	1	2	3	4
Contact Rating ¹	-	VA/Watt - max.	10	10	5	5
Voltage ⁴	Switching ²	Vdc - max.	200	300	175	175
	Breakdown ³	Vac - max.	140	265	120	120
		Vdc - min.	250	400	200	200
Current ⁴	Switching ²	Adc - max.	0.5	0.4	0.25	0.25
	Carry	Aac - max.	0.35	0.30	0.18	0.18
		Adc - max.	1.2	1.4	1.5	1.5
Resistance ⁵	Contact, Initial	Ω - max.	0.2	0.2	0.2	0.2
	Insulation	Ω - min.	10 ¹⁰	10 ¹⁰	10 ⁹	10 ⁹
Capacitance	Contact	pF - typ.	0.3	0.2	0.3	0.3
Temperature	Operating	°C	-40 to +105	-20 to +105	-40 to +105	-40 to +105

Product Characteristics

Operate Time ⁶	-	ms - max.	1.0	1.0	3.0	3.0
Release Time ⁶	-	ms - max.	1.0	1.0	3.0	3.0
Shock ⁷	11ms ½ sine	G - max.	100	100	50	50
Vibration ⁷	50-2000 Hz	G - max.	30	30	30	30

Notes:

- Contact rating - Product of the switching voltage and current should never exceed the wattage rating Contact Littelfuse for additional load/life information.
- When switching inductive and/or capacitive loads, the effects of transient voltages and/or currents should be considered. Refer to Application Notes AN108A and AN107 for details.

- Breakdown Voltage - per MIL-STD-202, Method 301. Leakage current is less than 0.1 mA for 60 seconds.
- Electrical Load Life Expectancy - Contact Littelfuse with voltage, current values along with type of load.
- This resistance value is for 300 mm wire length. Resistance changes when wire lengthens.
- Operate (including bounce)/Release Time - per EIA/NARM RS-421-A, diode suppressed coil (Coil II).
- Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.