

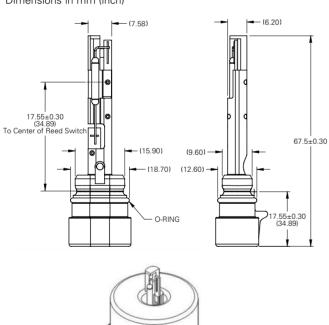
# 59300 Level Sensor

RoHS



# Dimensions

Dimensions in mm (inch)



#### Note: Littelfuse does not supply the float.

O-Ring

Magnetic Float

#### **Description**

The 59300 is a small sensor with a normally open contact, intended to be operated with a magnetic float actuator (not provided with sensor). It is capable of switching up to 140Vac/200Vdc at 10VA. It is ideally suited to liquid and air conditioning condensate and industrial process control applications.

#### **Features**

- Low cost
- No potting
- Welded connection
- Press fit mounting
- For blow or injection molded bottles
- RoHS compliant

#### **Benefits**

- No standby power required
- Long contact life with logic level loads
- Hermetically sealed contacts
- Automotive grade

## **Applications**

- Liquid level control
- · Air conditioning systems
- Industrial Process Control



# 59300 Level Sensor

### **Electrical Ratings**

Contact Type			Normally Open			
Switch Type			1			
Contact Rating <sup>1</sup>		VA/Watt - max.	10			
Voltage <sup>4</sup>	Switching <sup>2</sup> Breakdown <sup>3</sup>	Vdc - max. Vac - max. Vdc - min.	200 140 250			
Current <sup>4</sup>	Switching <sup>2</sup> Carry	Adc - max. Aac - max. Adc - max.	0.5 0.35 1.2			
Resistance <sup>5</sup>	Contact, Initial Insulation	$\Omega$ - max. $\Omega$ - min.	0.5 10 <sup>10</sup>			
Capacitance	Contact	pF - typ.	0.3			
Temperature	Operating	°C	-40 to +105			
Product Characteristics						
Operate Time <sup>6</sup>		ms - max.	0.6			
Release Time <sup>6</sup>		ms - max.	0.2			
Shock <sup>7</sup>	11ms ½ sine	G - max.	100			
Vibration <sup>7</sup>	50-2000 Hz	G - max.	30			
Connector Style	ector Style Mating		12052641			

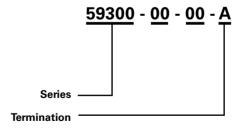
#### Notes:

- 1. Contact rating Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.
- 2. 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.
- 3. Breakdown Voltage per MIL-STD-202, Method 301.
- 4. Electrical Load Life Expectancy Contact Littelfuse with voltage, current values along with type of load.
- 5. This resistance value is for 11.81mm wire length. Resistance changes when wire lengthens.
- $6. \ Operate \ (including \ bounce)/Release \ Time \ per \ EIA/NARM \ RS-421-A, \ diode \ suppressed \ coil \ (Coil \ II).$
- 7. Shock and Vibration per EIA/NARM RS-421-A and MIL-STD-202.

# **Termination Options**

Select Option	Description	
А	Delphi Metri-Pak pn 12052641	

## **Part Numbering System**



## Reed Sensors Level Sensor > 59300



# 59300 Level Sensor

## **Packaging**

Packaging Option	Packaging Specification	Quantity	Quantity and Packaging Code	Taping Width
Bulk	Bulk	500	N/A	N/A

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