

# 59630 Sensor with Integral Float Actuator

RoHS



### **Dimensions**

Dimensions in mm (inch)





# Description

The 59630 is a reed level sensor with integral float actuator and an M8 x 1.25mm pitch thread with a choice of normally open, normally open high voltage, normally closed or change over contacts. It is capable of switching up to 265Vac/300Vdc at 10VA. It is ideally suited to liquid and air conditioning condensate and industrial process control applications.

### **Features**

- Sensor with integral blown polypropylene float, with integral magnet
- Sensor operates when float rises from end stop position

### **Benefits**

 Hermetically sealed, magnetically operated contacts continue to operate long after optical and other technologies fail due to contamination

### Applications

- Liquid level control
- Air conditioning systems

- Choice of contacts
- Choice of connector and cable length options
- No standby power required
- Simple installation with M8 thread and nut
- Industrial Process Control

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## **Electrical Ratings**

Contact Type			Normally Open	Normally Open High Voltage	Change Over	Normally Closed
Switch Type			1	2	3	4
Contact Rating <sup>1</sup>	ntact Rating <sup>1</sup> VA/W		10	10	5	10
Voltage 4	Switching <sup>2</sup> Breakdown <sup>3</sup>	Vdc - max. Vac - max. Vdc - min.	200 140 250	300 265 400	175 120 200	200 120 250
Current <sup>4</sup>	Switching <sup>2</sup> Carry	Adc - max. Aac - max. Adc - max.	0.5 0.35 1.2	0.4 0.30 1.4	0.25 0.18 1.5	0.5 0.18 1.2
Resistance <sup>5</sup>	Contact, Initial Insulation	Ω - max. Ω - min.	0.2 10 <sup>10</sup>	0.2 10 <sup>10</sup>	0.2 10 <sup>9</sup>	0.2 10 <sup>10</sup>
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 <sup>6</sup>		ms - max.	1.0	1.0	3.0	3.0
Release Time <sup>6</sup>		ms - max.	1.0	1.0	3.0	3.0
Shock 7	11ms ½ sine	G - max.	100	100	50	50
Vibration <sup>7</sup>	50-2000 Hz	G - max.	30	30	30	30

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 300mm wire length. Resistance varies based on wire length.

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.

8. For custom modifications to the wire length or size, or adding a special connector, please contact Littelfuse.

# Activation

Using sensor with float magnet orientated is illustrated



**Normally Open:** contacts are open when float is down as shown in the De-activate view. The contacts close when float is in upward position as shown on the left view.

**Normally Closed:** Contacts are closed when the float is in the down position. The contacts open when float is in the upward position as shown in the left view.



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## **Cable Length Specification**

### **Part Numbering System**

Cable Type: 24 AWG 7/32 PVC 105°C UL1430/UL1569					
Select Option	Cable Length mm (inch)				
02	300 (11.81)				

# **Termination Specification**

Select Option	Description (Two-wire versions illustrated)			
А	Tinned leads (6.4±0.76)mm			
D	AMP MTE Connector 2.5mm pitch, 104257-1			
F	Untinned leads (6.4±0.76)mm			



### Packaging

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