Littelfuse
Expertise Applied | Answers Delivered

8755 W. Higgins Road
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www.littelfuse.com

Product Change Notice (PCN)

(08/24/2021)

To whom it may concern,

Littelfuse would like to notify of a change related to the 59020 & 59021 Series of Cylindrical Leaded Sensors:

The internal Reed Switch MITI-3V1 will be replaced by the MITI-7 with extended sensitivity ranges and similar performance capabilities.

Details of Changes:

- Updates are valid for the 59020 and 59021 products after the date code shared in the Table #1 below
- The updated 59020 and 59021 Reed Sensors will have updated characteristics are specified in the tables below
    - Electrical ratings – Table #2
    - Activation distance changes of 59020 – Table #3
    - Activation distance changes of 59021 – Table #4
- There are no changes related to the fit and form of the sensors.
- First samples will be available starting mid-August.
- Regarding Last Time Buy please communicate with contacts below.

If you have any additional questions or concerns, please contact responsible product managers.

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Table #1. Cutoff date codes

Sensor	Cutoff Date Code
59020-1-X-XX-X	2150
59021-1-X-XX-X	2150

Table #2. Electrical ratings

			Sensor with MITI-3V1	Sensor with MITI-7
Contact Rating		Watt - max	10	10
Voltage	Switching	Vdc - max	170	170
		Vac - max	--	120
	Breakdown	Vdc - min	175	175
Current	Switching	Adc - max	0.25	0.25
		Aac - max	--	0.18
	Carry	Adc - max	0.5	0.5
Resistance	Contact, Initial	Ohm - max	0.2	0.2
	Insulation	Ohm - min	10^{10}	10^{10}
Capacitance	Contact	pF - typ	0.3	0.3
Temperature	Operating	Deg C	-65 to +125	
	Storage	Deg C	-40 to +125	

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. Leakage current is less than 0.1mA for 60 seconds.
4. Electrical Load Life Expectancy - Contact Littelfuse with voltage, and current values, along with type of load.
5. Storage Temperature - Long term exposure at elevated temperatures may degrade solderability of the leads

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Table #3: Sensitivity Options using 57020 Actuator

59020 Reed Sensor Select Option		MITI-3V1 (Old) S			MITI-7 (New) S		
Switch Type		Pull-In AT Range	Activation Distance Min (mm)	Deactivation Distance Max (mm)	Pull-In AT Range	Activation Distance (mm)	Deactivation Distance (mm)
1	Normally Open	6-10	3	12.50	6-10	4-11	5-12
Select Option		**T (Currently Not Offered)**			**T**		
Switch Type					Pull-In AT Range	Activation Distance (mm)	Deactivation Distance (mm)
1	Normally Open				10-15	3-10	4-11
Select Option		**U (Currently Not Offered)**			**U**		
Switch Type					Pull-In AT Range	Activation Distance (mm)	Deactivation Distance (mm)
1	Normally Open				15-20	2-9	3-10

Note:
1. Pull-In AT Range. These AT values are the bare reed switch before modification.
2. The activation distance is the range of the final sensor assembly

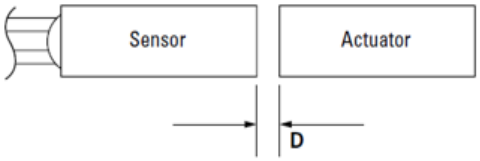

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Table #4: Sensitivity Options using 57020 Actuator

59021 Reed Sensor Select Option		MITI-3V1 (Old) S			MITI-7 (New) S		
Switch Type		Pull-In AT Range	Activation Distance Min (mm)	Deactivation Distance Max (mm)	Pull-In AT Range	Activation Distance (mm)	Deactivation Distance (mm)
1	Normally Open	6-10	3	12.50	6-10	3-12	4-13

Select Option		T (Currently Not Offered)			T (New)		
Switch Type					Pull-In AT Range	Activation Distance (mm)	Deactivation Distance (mm)
1	Normally Open				10-15	3-9	4-10

Select Option		U (Currently Not Offered)			U (New)		
Switch Type					Pull-In AT Range	Activation Distance (mm)	Deactivation Distance (mm)
1	Normally Open				15-20	2-9	3-10

Note:
1. Pull-In AT Range. These AT values are the bare reed switch before modification.
2. The activation distance is the range of the final sensor assembly