



Expertise Applied | Answers Delivered

8755 W. Higgins Road  
Suite 500  
Chicago, IL 60631

[www.littelfuse.com](http://www.littelfuse.com)

## Product Change Notice (PCN)

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(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.

Julius Venckus  
Global Product Manager – Sensors  
Electronics Business Unit  
Littelfuse Inc.  
E-mail: [jvenckus@littelfuse.com](mailto:jvenckus@littelfuse.com)

Michaela Schnelle  
Associate Product Manager - Sensors  
Electronics Business Unit  
Littelfuse Inc.  
E-mail: [mschnelle@littelfuse.com](mailto:mschnelle@littelfuse.com)



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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
Current	Breakdown	Vdc - min	175	175
	Switching	Adc - max	0.25	0.25
		Aac - max	--	0.18
Resistance	Carry	Adc - max	0.5	0.5
	Contact, Initial	Ohm - max	0.2	0.2
Capacitance	Insulation	Ohm - min	10 <sup>10</sup>	10 <sup>10</sup>
	Contact	pF - typ	0.3	0.3
Temperature	Operating	Deg C	-65 to +125	
	Storage	Deg C	-40 to +125	

**Notes:**

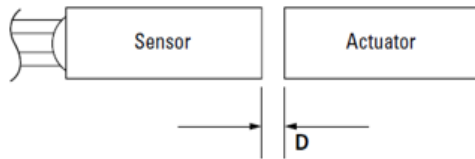
- Contact Rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.
- When switching inductive and/or capacitive loads, the effects of transient voltages and/or currents should be considered. Refer to Application Notes AN108A and AN107 for details.
- Breakdown Voltage - per MIL-STD-202, Method 301. Leakage current is less than 0.1mA for 60 seconds.
- Electrical Load Life Expectancy - Contact Littelfuse with voltage, and current values, along with type of load.
- Storage Temperature - Long term exposure at elevated temperatures may degrade solderability of the leads

**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



**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

