



Expertise Applied | Answers Delivered

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

## Product Change Notice (PCN)

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(12/01/2020)

### Product Change Notification for Littelfuse - 55100-AP & 55140-AP Analog Programmable Hall Sensors

To whom it may concern,

Littelfuse would like to notify you of a change related to the update of electrical parameters of the 55100 & 55140 Analog Output Sensors.

#### Details of Changes:

- The updated 55100-AP & 55140-AP are intended to match the current output of obsoleted parts, therefore we anticipate no change in fit, form, or function.
- The updated 55100-AP & 55140-AP are designed to enhance quality & reliability characteristics, improved magnetic sensing range (15 mT - instead of 30 mT), improved ESD capabilities, and "Green" RoHS packaging.
- Comparison testing was completed in November of 2020. Contact LF Engineering for details of analog output with LF H-58 Standard Neodymium magnet. The Standard Programming of the new part is intended to match the performance of the replaced one. For details of programming please contact Littelfuse Engineering Team.
- See updated electrical ratings on page 2.
- Updates are valid for the 55100-AP & 55140-AP products with date code 2045 or later.
- First samples will be available from early January 2021.
- Last time buy is not available due to immediate obsolescence of old part.

Please note only 55100-AP-02-A and 55140-AP-02-A will be available.

The following parts will be discontinued: 55100-AP-02-E / 55100-AP-02-F / 55100-AP-04-A / 55100-AP-04-E / 55140-AP-02-E / 55140-AP-02-F / 55140-AP-03-A.

If you have any additional questions or concerns, please contact me or your Regional Sales Manager.

Best Regards,  
Julius Venckus  
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Electronics Business Unit  
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### AP Series Description

The AP (Analog Programmable) Hall Sensors offer a variable output voltage (Vdc) dependent on magnetic flux present. The sensor comes standard with a pre-programmed response (~0.1 Vdc to 2.5 Vdc) but can be reprogrammed within certain parameters to meet a wide range of needs/requirements.

Hall Type		AP (Analog Programmable)		
55100-AP & 55140-AP Products			<i>Previous Hall Sensor Electrical ratings</i>	<i>New hall Sensor Electrical ratings</i>
Supply Voltage	Absolute Ratings	Vdc	8.5	8.5
	Operating	Vdc	4.5 to 5.5	4.5 to 5.6
	Oversvoltage Protection	Vdc (max)	19.5	16.0
Output Voltage (Low)		Vdc	0.35	0.20
Output Voltage (High)		Vdc	4.65	4.80
Output Current (continuously ON)		mA (Max)	-1.0 to +1.0	-1.0 to +1.0
Current Consumption (over temperature Range)	Low	mA (Max)	2.0 to 10.0	5.0
	High		12.0 to 17.0	10.0
Switching Speed		kHz (Max)	2	2
Temperature (Operating)		Deg C	-40 to +100	-40 to +100