Littelfuse
Expertise Applied | Answers Delivered

8755 W. Higgins Road
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www.littelfuse.com

Product Change Notice (PCN)

(02/11/2021)
To whom it may concern,

Littelfuse would like to notify of a change related to Hall Sensors series:
55100-3H, 55100-2M, 55100-3M, 55140-3H, 55140-2M, 55140-3M
Some customized part numbers are also affected (see appendix table #5)

Details of Changes:

- Updates are valid for the 55100 & 55140 products after the date code shared in the table #1 below
- The updated 55100 & 55140 Hall Switch Sensors characteristics are specified in the tables below
    - Electrical ratings – tables #2 & #3
    - Activation distance changes – table #4
- There are no changes related to the fit and form of the sensors
- First samples will be available starting mid-February.
- Last time buy is not available due to supply chain issues to obtain the old Hall IC devices.

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

Best Regards,
Julius Venckus
Global Product Manager – Sensors
Electronics Business Unit
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Table #1: Cutoff Date codes

Option	Hall Type	Cutoff Date Code
2M	2-Wire Switch	1121
3M	3-Wire Switch	1121
3H	3-Wire Switch	0921

Table #2: Electrical Ratings, 2-Wire Hall Switch

Note: Red Text Indicates Changed Value

Hall Type			Digital Switch 2-Wire (Current Output)	
			Previous Hall	New Hall IC
Supply Voltage[1]	Absolute Ratings	Vdc	-15 to +28	-18 to +28
	Operate	Vdc	+3.75 to +24	+3 to +24
	Overvoltage Protection	Vdc - max	32	32
Current Consumption	Hall OFF	mA	5.0 - 6.9	5.0 to 6.9
	Hall ON	mA	12.0 - 17.0	12.0 to 17.0
Switching Speed		kHz	10	12
Temperature	Operating	C	-40 to +100	-40 to +100

Notes:
1. It is assumed the product will operate within the normal Supply Voltage of +24Vdc maximum.

Table #3: Electrical Ratings, 3-Wire Hall Switch

Note: Red Text Indicates Changed Value

Hall Type			Digital Switch 3 - Wire (Voltage Output)	
			Previous Hall	New Hall IC
Supply Voltage[1]	Absolute Ratings	Vdc	-15 to +28	-18 to +28
	Operate	Vdc	3.75 to 24	2.7 to 24
	Overvoltage Protection	Vdc - max	32	32
Output High Voltage	Min	Vdc	Sinking Output	Sinking Output
Output Low Voltage	Max	Vdc	0.4 @ 20mA	0.4 @ 20mA
Output Current (continuously on)	Max	mA	20	25
Current Consumption (from Supply)		mA	1.6 to 5.2	1.1 to 2.4
Switching Speed		kHz	10	12
Temperature	Operating	C	-40 to +100	-40 to +100

Notes:
1. It is assumed the product will operate within the normal Supply Voltage of +24Vdc maximum.

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Table #4: Hall Options

Note: Red Text Indicates Changed

Select Option	Hall Type	Sensitivity (Gauss) Previous Hall	Activate - D[1] mm (inch) Previous Hall	Sensitivity (Gauss) - Updated Hall -	Activate - D[1] mm (inch) - Updated Hall -
2M	2-Wire Switch	120	13.5	94	15.0
3M	3-Wire Switch	130	12.5	120	13.0
3H	3-Wire Switch	59	18.0	55	19.0

1. Activation distances are approximate using NeFeB Magnet 21 x 7 x 4.7 (.827 x .276W x .185H) Littelfuse P/N H-58

Table #5: Customized Parts - Cutoff Date Codes

Material	Option	Cutoff Date Code
55100-501	3H	0921
55100-503	3H	0921
55100-506	3H	0921
55100-507	3M	1021
55100-508	3M	1021
55100-509	3H	0921
55100-510	3M	1021
55100-512	3H	0921
55100-900	3H	0921