

55110 Miniature Flange Mounting Proximity Sensor

RoHS



Description

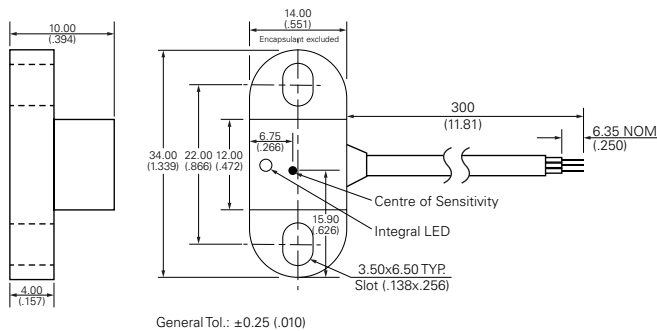
The 55110 is a flange mounting hall effect sensor with the integral LED for visual indication of operation. The overall sensor measures 34.00mm (1.339") x 14.00mm (0.551") x 10.00mm (0.394"). It is available as three-wire (voltage output) version and its case design enables screw or adhesive mounting. It is capable of switching up to 28Vdc and 20mA. It works best with Littelfuse's H-58 magnet.

Features

- Magnetically operated position sensor
- Integral LED
- Medium or high sensitivities
- Three-wire (voltage output)
- Reverse/Over voltage protection
- Built in temperature compensation

Dimensions

Dimensions in mm (inch)



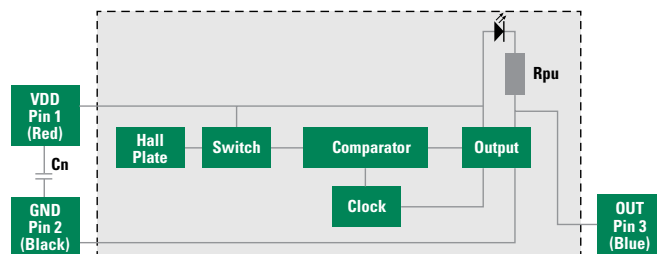
Benefits

- High switching speed up to 10kHz
- Long life - up to 1 billion operations
- Visual indication of operation
- Unaffected by harsh environments
- Operates in static or dynamic magnetic field
- Customer selection of cable length and connector type

Applications

- Position and limit sensing
- Magnetic encoders

Block Diagram



Note:

1. Add capacitor Cn as shown, close for the sensors for transient suppression if required.

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Electrical Ratings

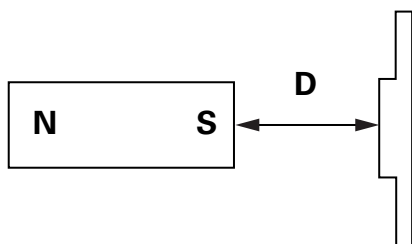
Hall Type			Digital Switch Three-Wire (Voltage Output)
Supply Voltage ¹	Absolute Ratings Operate Overvoltage Protection	Vdc Vdc Vdc - max.	-15 to +28 +3.8 to +24 32
Output High Voltage		Vdc - min.	Vdd-2 @ 0.1mA (sinking output with internal pull-up)
Output Low Voltage		Vdc - max.	0.4 @ 10mA
Output Current (continuously on)		mA - max.	10
Switching Speed		Khz - max.	10
Temperature	Operating	°C	-40 to +85

Note:

1. As long as Tj (Junction Temperature) max. Is not exceeded.

Hall Options

Select Option	Hall Type	Sensitivity Gauss (typ.)	Activate - D mm (inch)
3M	3 Wire Switch	130	12.5 (.492)
3H	3 Wire Switch	59	18.0 (709)



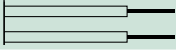
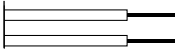
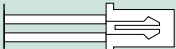
Note: Active distances are approximate using NEFEB Magnet 21 x 7 x 4.7 (.8271 x .276W x .185H) LITTELFUSE P/N H-58-MAGNET.

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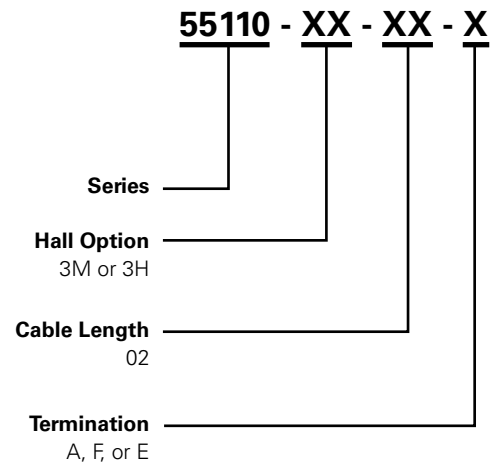
Cable Length Specification

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

Termination Specification

Termination Options		
Select Option	Description (Two-wire versions illustrated)	
A	Tinned leads (6.4±0.76)mm	
F	Untinned leads (6.4±0.76)mm	
E	JST type XHP 2.5mm pitch	

Part Numbering System



Packaging

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse:

<u>55110 3H 02 A</u>	<u>55110 3L 02 A</u>	<u>55110 3M 02 A</u>	<u>55110-3L-02-A</u>	<u>55110-3M-02-A</u>	<u>55110-3H-02-A</u>	<u>55110-3M-03-E</u>
<u>55110-3L-01-A</u>	<u>55110-3M-01-D</u>	<u>55110-3L-02-E</u>	<u>55110-3M-05-A</u>	<u>55110-3L-05-E</u>	<u>55110-3M-04-E</u>	<u>55110-3H-01-E</u>
<u>55110-3L-03-A</u>	<u>55110-3M-02-E</u>	<u>55110-3M-04-D</u>	<u>55110-3L-05-A</u>	<u>55110-3L-03-E</u>	<u>55110-3M-01-A</u>	<u>55110-3H-03-E</u>
<u>55110-3M-04-A</u>	<u>55110-3M-05-E</u>	<u>55110-3L-03-D</u>	<u>55110-3H-05-A</u>	<u>55110-3H-02-D</u>	<u>55110-3L-04-D</u>	<u>55110-3M-01-E</u>
<u>55110-3L-01-E</u>	<u>55110-3H-02-E</u>	<u>55110-3L-05-D</u>	<u>55110-3M-05-D</u>	<u>55110-3L-02-D</u>	<u>55110-3L-04-E</u>	<u>55110-3H-01-A</u>
<u>55110-3H-03-D</u>	<u>55110-3L-01-D</u>	<u>55110-3M-03-D</u>	<u>55110-3H-04-A</u>	<u>55110-3L-04-A</u>	<u>55110-3H-01-D</u>	<u>55110-3H-03-A</u>
<u>55110-3M-02-D</u>	<u>55110-3M-03-A</u>					