

55110 Flange Mount Hall Effect Sensor with L.E.D.



Features

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

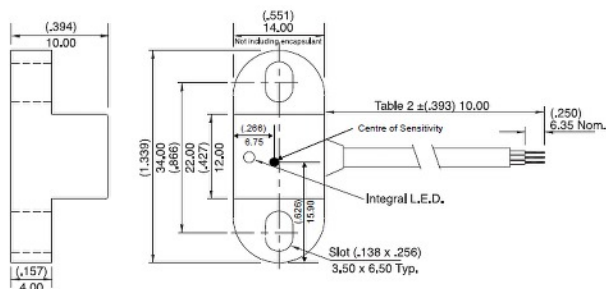
Benefits

- High switching speed up to 10kHz
- Long life; up to 20 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

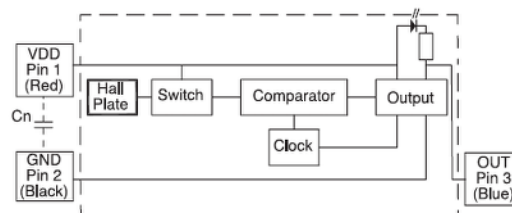
- Position and limit sensing
- RPM measurement
- Flow metering
- Commutation of brushless dc motors
- Angle sensing
- Magnetic encoders

DIMENSIONS (in) mm



General Tol.: ± (.010) 0.25

BLOCK DIAGRAMS



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

CUSTOMER OPTIONS - Specifications

Hall Type			Digital Switch or Digital Latch
			3 Wire (Voltage output)
Supply Voltage (Note 1)	Absolute Rating	Vdc	-15 to +28
	Operate	Vdc	+3.8 to +24
	Overvoltage Protection	Vdc - max.	32
Output High Voltage		Vdc - min.	Vdd-2 @ 0.1mA (sinking output with internal pull-up)
Output Low voltage		Vdc - max.	0.4 @ 20mA
Output Current (continuously on)		mA - max.	20
Switching Speed		KHz - max.	10
Temperature	Operating	°C	-40 to +85
	Storage	°C	-65 to +85

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

CUSTOMER OPTIONS - Sensitivity, Cable Length and Termination Specification

Table 1 HALL OPTIONS ACTIVATE DISTANCES ARE APPROXIMATE USING NEFEB MAGNET (.8271 x .276W x .185H) 21 x 7 x 4.7 HAMLIN P/N 5812334000			
Select Hall Option	Hall Type	Sensitivity Gauss (typ.)	Activate - d (in) mm
3M	3 Wire Switch	130	(.492) 12.5
3H	3 Wire Switch	59	(.709) 18.0
3L	3 Wire Latch	86	(.394) 10.0

Table 2 Cable Length:- (Cable Type 24AWG 7/32 PVC 105° C UL 1430/UL1569)	
Standard Lengths	
SELECT OPTION	CABLE LENGTH (in) mm
01	(3.94) 100
02	(11.81) 300
03	(19.69) 500
04	(29.53) 750
05	(39.37) 1000

Table 3 Termination Options:-		
SELECT OPTION	DESCRIPTION (2 WIRE VERSION ILLUSTRATED)	
A	Tinned Leads	
D	AMP MTE 2.54mm pitch	
E	JST XHP 2.5mm pitch	

ORDERING INFORMATION

